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Author D. J. Flue

Catalog of
the Illustrated
Paleozoic Plant
Specimens in
the National
Museum of
Natural History



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ABSTRACT

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Arthur D. Watt

Catalog of the Illustrated Paleozoic Plant Specimens in the National Museum of Natural History

Introduction

This catalog, which is up to date as of 1964, is presented as a supplement to the Paleozoic content of A. C. Peale's paleobotanical catalog in *United States National Museum Bulletin* 53, part 2, section 3, published in 1907 as "Catalogue of the Type and Figured Specimens of Fossils, Minerals, Rocks, and Ores in the Department of Geology, United States National Museum: Part 2. Fossil Vertebrates; Fossil Plants; Minerals, Rocks, and Ores." It was prepared under the direction of George P. Merrill, then Head Curator of Geology.

Genera are listed alphabetically, as are the species under each genus. An index to species is provided for convenient cross reference. The age used for each specimen is that of the referenced author and does not necessarily reflect present U.S. Geological Survey usage. The numbers following geologic age in each entry refer to numbers in the United States National Museum paleobotanical catalogs. The abbreviated references indicated in each entry are cited fully in the bibliography.

A very small percentage of the specimens listed here have not actually been illustrated, but inasmuch as they were textually isolated or represent unfigured parts of figured specimens they are included. Furthermore, typological status of specimens is not indicated here because in so many cases it is obscure; this is particularly true of material treated in the older works, in which types were not designated.

Arthur D. Watt, United States Geological Survey, Washington, D.C. 20240.

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cruciatus Sternberg. Pennsylvanian (Lawrence). 17357. Lawrence, Kansas. Cridland et al., 1963, pl. 17: fig. 6.

inopinatus White. Mississippian (Jackfork). 39426-28. Tuskahoma quadrangle, Oklahoma. White, 1936c, p. 53, pl. 12: figs. 1, 13-15.

menae White. Mississippian (Stanley). 39433-34. De Queen quadrangle, Arkansas, and Antlers quadrangle, Oklahoma. White, 1936c, p. 54, pl. 14: figs. 16, 17, 21.

miseri White. Mississippian (Stanley). 39429-32. De Queen quadrangle, Arkansas. White, 1936c, p. 54, pl. 14: figs. 13, 22, 24-26.

ramifer Stur. Pennsylvanian (Pottsville). 17521-22. Pittston, Pennsylvania. Lesquereux, 1884, p. 703, pl. 91: figs. 4, 4a.

ramosus Artis. Pennsylvanian (Missourian). 17386-89. Lawrence, Kansas. Lesquereux, 1884, p. 702, pl. 92: figs. 1-4.

suckowi Brongniart. Pennsylvanian (Pottsville). 40891. Clay City quadrangle, Indiana. Jackson, 1917, p. 410, pl. 8: fig. 8.

suckowi Brongniart. Pennsylvanian (Lawrence). 17260. Lawrence, Kansas. Cridland et al., 1963, pl. 17: fig. 10.

Calamodendron

species. Pennsylvanian (Allegheny). 17296. Cannelton, Pennsylvania. Lesquereux, 1884, p. 708, pl. 92: fig. 5.

Calamopitys

americana Scott and Jeffrey. Devonian. 41242-44. Junction City, Kentucky. Read, 1937, p. 81, pl. 16: fig. 1; pl. 17: figs. 1-4; pl. 26: figs. 2, 5.

foerstei Read. Devonian. 41248. Junction City, Kentucky. Read, 1936, p. 219, fig. 6; 1937, p. 83, pl. 19: figs. 1-3.

Calamostachys

brevifolia Lesquereux. Pennsylvanian (Allegheny). 18358. Cannelton, Pennsylvania. Lesquereux, 1884, p. 718, pl. 89: fig. 5.

lanceolata Lesquereux. Pennsylvanian (Pottsville). 18062-63, 18276. Washington County, Arkansas, and Dade County, Georgia. Lesquereux, 1884, p. 715, pl. 91: figs. 1, 2; pl. 93: fig. 1.

ovalis Lesquereux. Pennsylvanian (Pottsville). 18054, 18095. Dade County, Georgia. Lesquereux, 1884, p. 717, pl. 89: figs. 3, 4.

Calcareous algae

Mississippian (Pocono). 40248. Cleveland, Virginia. Butts, 1941, pl. 127: fig. 26.

Calcisphaera

lemoni Knowlton, Early Devonian ("Corniferous"). 3664. Falls of the Ohio, Indiana. Knowlton, 1889, pp. 202-209, figs. 1-3.

Callipteridium

aldrichi Lesquereux. Pennsylvanian (Pottsville). 11238, 11242, 12087. Jefferson Mines, Alabama. Lesquereux, 1880, p. 106, pl. 39: figs. 1-3.

inaequale Lesquereux. Pennsylvanian (Cherokee). 5603, 6093, 6111. Henry County, Missouri. White, 1899a, p. 123, pl. 39: fig. 4; pl. 41: fig. 1d; pl. 42: fig. g.

inaequale Lesquereux. Pennsylvanian (Allegheny).

11916-20. Cannelton Pennsylvania. Lesquereux, 1880, p. 168, pl. 33: figs. 2-5.

mansfieldi Lesquereux. Pennsylvanian (Allegheny). 11930-32. Cannelton, Pennsylvania. Lesquereux, 1880, p. 166, pl. 27: figs. 1, 2.

membranaceum Lesquereux. Pennsylvanian (Cherokee). 5625, 5691, 5810, 13181-82, 13187. Henry County, Missouri. Lesquereux, 1880, p. 172, pl. 27: figs. 4-6.—White, 1899a, p. 120, pl. 38: figs. 1-5. cf. *C. membranaceum* Lesquereux (counterpart). Pennsylvanian. 41986. Georgia. Allen and Lester, 1954, pl. 35: fig. 9.

neuropterooides Lesquereux. Pennsylvanian (Allegheny). 11878-79. Mazon Creek, Illinois. Lesquereux, 1880, p. 166, pl. 27: fig. 3.

rigidum Lesquereux. Pennsylvanian ("Anthracite" Series). 13601-02. Olyphant, Pennsylvania. Lesquereux, 1884, p. 746, pl. 99: figs. 1, 2.

sinuatum (Brongniart) Lesquereux. Pennsylvanian (Allegheny). 13605-06. Mazon Creek, Illinois. Lesquereux, 1884, p. 745, pl. 99: fig. 3.

sullivanti Lesquereux. Pennsylvanian (Cherokee). 3589, 5479, 5481-82, 5660. Henry County, Missouri. White, 1899a, p. 123, pl. 39: figs. 1, 2; pl. 41: figs. 1-3.

species. Pennsylvanian (Pottsville). 40851, 40853, 40855, 40857. Bloomington quadrangle, Indiana. Jackson, 1917, p. 419, pl. 3: figs. 5, 7; pl. 4: figs. 2, 4.

Callipteris

cf. *C. advensis* Zalessky. Permian (Vale). 41778, 41847. 2 miles east of Abilene, Texas. Read and Mamay, 1964, pl. 19: figs. 5, 6.

arizonae White. Permian (Hermit). 38027. Grand Canyon, Arizona. White, 1929, p. 50, pl. 13.

conferta (Sternberg) Brongniart. Permian (Hermit). 38026. Grand Canyon, Arizona. White, 1929, p. 47, pl. 11: figs. 1, 2; pl. 12: figs. 3-5; pl. 17: fig. 4.

conferta (Sternberg) Brongniart. Permian (Abo). 41224. Spanish Queen mine, 6 miles southwest of Jemez Springs, New Mexico. Read and Mamay, 1964, pl. 13: fig. 5.

sp. cf. *C. flabellifera* (Weiss) Zeiller. Permian (Belle Plains). 41769. Emily Irish grant, Baylor County, Texas. Read and Mamay, 1964, pl. 17: fig. 2.

lyratifolia Zeiller. Early Permian. 41225. 1 mile south of Coyote Post Office, Rio Arriba County, New Mexico. Read and Mamay, 1964, pl. 13: fig. 4.

raymondi Zeiller. Permian (Hermit). 38028. Grand Canyon, Arizona. White, 1929, p. 52, pl. 12: fig. 2; pl. 36: fig. 3.

Callipteris?

species. Permian (Hermit). 38029. Grand Canyon, Arizona. White, 1929, p. 53, pl. 35: figs. 1, 2.

Callithamnopsis

fruticosa (Hall) Whitfield. Ordovician. 41088-89. Platteville, Wisconsin. Whitfield, 1894, p. 354, pl. 11: figs. 4-7.

Calymmatotheca

species. Mississippian (Stanley). 39412. De Queen quadrangle, Arkansas. White, 1936c, p. 64. pl. 14: figs. 1, 9.

Cantheliophorus

cultiformis (Lesquereux) Bassler. Pennsylvanian (Allegheny). 16087-88. Cannelton, Pennsylvania. Bassler, 1919, p. 98, pl. 9: figs. 5-7.

linearifolius (Lesquereux) Bassler. Pennsylvanian (Pottsville). 16069. Pittston, Pennsylvania. Bassler, 1919, pp. 97-98, pl. 9: figs. 1, 2.

pugiatus Bassler. Pennsylvanian (Pottsville). 16108. Pittston, Pennsylvania. Bassler, 1919, p. 101, pl. 10: fig. 27.

subulatus Bassler. Pennsylvanian (Cherokee). 16095-96. Lansing, Kansas. Bassler, 1919, pp. 98-99, pl. 9: fig. 12.

Cardiocarpon

acuminatum Jackson. Pennsylvanian (Pottsville?). 40898. Clay City quadrangle, Indiana. Jackson, 1917, p. 422, pl. 9: fig. 9.

akroni Read. Pennsylvanian (Pottsville). 25382. Akron, Ohio. Read, 1946, p. 22, pl. 2: fig. 5.—Read and Mamay, 1964, pl. 7: fig. 2.

annularis (Sternberg) Lesquereux. Pennsylvanian (Pottsville). 25801-03. Pittston, Pennsylvania. Lesquereux, 1884, p. 814, pl. 110: figs. 28-30.

annulatum Newberry. Pennsylvanian (Pottsville). 25441-42. Pittston, Pennsylvania. Lesquereux, 1880, p. 564, pl. 85: figs. 36, 37.

annulatum? Newberry. Pennsylvanian (Pottsville). 40887. Clay City quadrangle, Indiana. Jackson, 1917, p. 421, pl. 8: fig. 4.

barcellosum White. Early Permian. 32022. Rio Grande do Sul, Brazil. White, 1908, p. 567, pl. 10: fig. 11.

bicuspidatum (Sternberg) Newberry. Pennsylvanian (Pottsville). 40880, 40886. Clay City quadrangle, Indiana. Jackson, 1917, p. 424, pl. 7: fig. 6; pl. 8: fig. 3.

branneri White. Pennsylvanian (Cherokee). 6097. Henry County, Missouri. White, 1899a, p. 266, pl. 61: fig. 1e.

circularis Lesquereux. Pennsylvanian (Allegheny). 25592. Vermillion County, Indiana. Lesquereux, 1884, p. 812, pl. 110: fig. 10.

commune Jackson. Pennsylvanian (Pottsville). 40910. Clay City quadrangle, Indiana. Jackson, 1917, p. 423, pl. 10: fig. 11.

conglobatus Lesquereux. Pennsylvanian (Pottsville). 25565. Arkansas. Lesquereux, 1884, p. 810, pl. 109: fig. 11.

cordatum Jackson. Pennsylvanian (Pottsville). 40899, 40909. Clay City quadrangle, Indiana. Jackson, 1917, p. 423, pl. 9: fig. 10; pl. 10: fig. 10.

cornutum Dawson. Pennsylvanian (Pottsville). 40974. Pottsville Gap, Pennsylvania. White, 1900, p. 908, pl. 193: fig. 10.

crassus Lesquereux. Pennsylvanian (Pottsville). 25598-602. Pittston, Pennsylvania. Lesquereux, 1884, p. 812, pl. 109: fig. 12; pl. 110: figs. 6-9.

cuneatum Jackson. Pennsylvanian (Pottsville). 40905, 40907. Clay City quadrangle, Indiana. Jackson, 1917, p. 423, pl. 10: figs. 4, 6.

dilatatus Lesquereux. Pennsylvanian (Pottsville). 25384. Washington County, Arkansas. Lesquereux, 1884, p. 806, pl. 110: fig. 2.

diminutivus Lesquereux. Pennsylvanian (Pottsville). 26418. Pittston, Pennsylvania. Lesquereux, 1880, p. 570, pl. 85: fig. 48.

diplotesta Lesquereux. Pennsylvanian (Pottsville). 25672. Pittston, Pennsylvania. Lesquereux, 1884, p. 812, pl. 110: fig. 13.

divergens Lesquereux. Pennsylvanian ("Anthracite" Series). 25511-12. Pittston, Pennsylvania. Lesquereux, 1884, p. 811, pl. 110: fig. 4.

ellipticus (Sternberg) Lesquereux. Pennsylvanian (Allegheny). 25888-89. Cannelton, Pennsylvania. Lesquereux, 1884, p. 814, pl. 110: figs. 23, 24.

ellipticus (Sternberg) Lesquereux. Pennsylvanian (Pottsville). 25786-88. Pittston, Pennsylvania. Lesquereux, 1884, p. 814, pl. 110: figs. 25-27.

elongatus Newberry. Pennsylvanian (Pottsville). 25714. Pittston, Pennsylvania. Lesquereux, 1884, p. 804, pl. 109: fig. 16.

girtyi White. Pennsylvanian (Pottsville). 40979. New Lincoln colliery, Pennsylvania. White, 1900, p. 907, pl. 193: fig. 11.

gracile Jackson. Pennsylvanian (Pottsville). 40906. Clay City quadrangle, Indiana. Jackson, 1917, p. 423, pl. 10: fig. 5.

harveyi Lesquereux. Pennsylvanian (Pottsville). 26158-59. Washington County, Arkansas. Lesquereux, 1884, p. 808, pl. 109: figs. 22, 23.

ingens Lesquereux. Pennsylvanian (Pottsville). 25417. Washington County, Arkansas. Read, 1946, p. 22, pl. 2: fig. 4.

irregularis Jackson. Pennsylvanian (Pottsville). 40908a-b. Clay City quadrangle, Indiana. Jackson, 1917, p. 422, pl. 10: figs. 8, 9.

late-alatus Lesquereux. Pennsylvanian (Pottsville). 25685. Pittston, Pennsylvania. Lesquereux, 1880, p. 568, pl. 85: fig. 46.

latior Lesquereux. Pennsylvanian (Pottsville). 25585-86. Rockwood and Tracy, Tennessee. Lesquereux, 1884, p. 811, pl. 110: figs. 11, 12.

longicollis Lesquereux. Pennsylvanian (Pottsville). 26165. Dade County, Georgia. Lesquereux, 1884, p. 808, pl. 109: fig. 24.

moreiranum White. Early Permian. 32019. Santa Catharina, Brazil. White, 1908, p. 563, pl. 10: fig. 10.

obtusum Jackson. Pennsylvanian (Pottsville). 40911. Clay City quadrangle, Indiana. Jackson, 1917, p. 426, pl. 10: fig. 13.

oliveiranum White. Early Permian. 32021. Santa Catharina, Brazil. White, 1908, p. 565, pl. 10: fig. 9.

ovalis Lesquereux. Pennsylvanian (Pottsville). 25516-17. Washington County, Arkansas. Lesquereux, 1884, p. 810, pl. 109: fig. 9.

ovaloidum Jackson. Pennsylvanian (Pottsville). 40872. Bloomington quadrangle, Indiana. Jackson, 1917, p. 425, pl. 6: fig. 2.

pachytesta Lesquereux. Pennsylvanian (Pottsville). 25482-86. Pittston, Pennsylvania. Lesquereux, 1884, p. 809, pl. 109: figs. 13-15.

pachytestum Lesquereux. Pennsylvanian (Pottsville). 40869. Bloomington quadrangle, Indiana. Jackson, 1917, p. 422, pl. 5: fig. 9.

patens Lesquereux. Pennsylvanian (Pottsville). 25504. Washington County, Arkansas. Lesquereux, 1884, p. 807, pl. 110: fig. 3.

phillipsi Read. Pennsylvanian (Forkston coal). 25390-91, 25396. Dutch Mountain, Pennsylvania. Read, 1946, p. 20, pl. 2: figs. 1-3.

pusillus Lesquereux. Pennsylvanian ("Anthracite" Series). 25862. Wilkes-Barre, Pennsylvania. Lesquereux, 1884, p. 815, pl. 110: fig. 33.

pusillus Lesquereux. Pennsylvanian (Allegheny). 25923-24. Cannelton, Pennsylvania. Lesquereux, 1884, p. 815, pl. 110: figs. 31, 32.

rugosum Jackson. Pennsylvanian (Pottsville). 40871. Bloomington quadrangle, Indiana. Jackson, 1917, p. 425, pl. 6: fig. 1.

seixasi White. Early Permian. 32010-13. Santa Catharina, Brazil. White, 1908, p. 559, pl. 10: figs. 5-8.

speciosus Lesquereux. Pennsylvanian (Allegheny). 26205. Cannelton, Pennsylvania. Lesquereux, 1884, p. 807, pl. 110: fig. 1.

subcirculare Jackson. Pennsylvanian (Pottsville). 40888. Clay City quadrangle, Indiana. Jackson, 1917, p. 424, pl. 8: fig. 5.

zonulatus Lesquereux. Pennsylvanian (Pottsville). 25678-80. Pittston, Pennsylvania. Lesquereux, 1880, p. 568, pl. 85: figs. 44, 45.

species indeterminate. Pennsylvanian (Pottsville). 40868. Bloomington quadrangle, Indiana. Jackson, 1917, p. 424, pl. 5: fig. 8.

Cardiopteris

abbensis Read. Mississippian (Mauch Chunk). 40680-82. Abb's Valley, West Virginia. Read, 1955, p. 28, pl. 2: figs. 1-3.

antecedens Read. Mississippian (Pocono). 40645, 40690. Pottsville, Pennsylvania. Read, 1955, p. 22, pl. 9: figs. 1, 2.

hirta White. Mississippian (Wedington). 39478-81. Winslow quadrangle, Arkansas. White, 1936b, p. 19, pl. 4: figs. 29, 31, 32, 35, 37.

irregularis Read. Mississippian (Pocono). 40663-64. Wythe County, Virginia. Read, 1955, p. 21, pl. 10: figs. 1, 2.

species. Mississippian (Wedington). 39483. Winslow quadrangle, Arkansas. White, 1936b, p. 20, pl. 4: figs. 40, 41.

Carpolithes

butlerianus Lesquereux. Pennsylvanian (Pottsville). 26355. Pittston, Pennsylvania. Lesquereux, 1884, p. 824, pl. 111: fig. 19.

cerasiformis Sternberg. Pennsylvanian (Allegheny). 26371. Cannelton, Pennsylvania. Lesquereux, 1884, p. 824, pl. 111: fig. 18.

confinis White. Devonian. 36470. Perry, Maine. Smith and White, 1905, p. 78, pl. 4: fig. 11.

conicus Lesquereux. Pennsylvanian. 26483. Shamokin, Pennsylvania. Lesquereux, 1884, p. 824, pl. 111: fig. 17.

granularis Sternberg. Pennsylvanian. 25757-58. Pittston, Pennsylvania, and Osage, Kansas. Lesquereux, 1884, p. 825, pl. 111: figs. 20, 21.

latior Lesquereux. Pennsylvanian (Pottsville). 25964-66. Pittston, Pennsylvania. Lesquereux, 1884, p. 826, pl. 110: fig. 69.

minimus Sternberg. Pennsylvanian. 25851-52. Cannelton and Wilkes-Barre, Pennsylvania. Lesquereux, 1884, p. 825, pl. 110: figs. 66, 67.

perpusillus Lesquereux. Pennsylvanian (Pottsville). 25950-52. Pittston, Pennsylvania. Lesquereux, 1884, p. 825, pl. 111: figs. 22-24.

transsectus Lesquereux. Pennsylvanian (Pottsville). 25810-11. Washington County, Arkansas. Lesquereux, 1884, p. 826, pl. 111: figs. 27, 27a.

Carpolithus

inquirenda White. Mississippian (Wedington). 39515-16. Winslow quadrangle, Arkansas. White, 1936b, p. 26, pl. 8: figs. 9, 10, 15.

species. Early Permian. 32023. Santa Catharina, Brazil. White, 1908, p. 589, pl. 10: fig. 12.

Caulopteris

lacoei Lesquereux. Pennsylvanian ("Anthracite" Series). 17106, 11051. Olyphant, Pennsylvania. Lesquereux, 1880, p. 344.

mansfieldi Lesquereux. Pennsylvanian (Allegheny). 17118. Cannelton, Pennsylvania. Lesquereux, 1880, p. 346, pl. 60: fig. 3.

Chaetocladus

plumula Whitfield. Ordovician. 41137. Platteville, Wisconsin. Whitfield, 1894, p. 356, pl. 11: figs. 11-13.

Chaetomorpha?

prima Whitfield. Ordovician. 41091. Platteville, Wisconsin. Whitfield, 1894, p. 355, pl. 11: figs. 9, 10.

Chlamidostachys

chesterianus White. Mississippian (Wedington). 39558-62. Winslow quadrangle, Arkansas. White, 1936b, p. 38, pl. 8: figs. 11, 17-19, 21.

Cladoxylon

dawsoni Read. Devonian (Genesee). 39275. Bristol Center, New York. Read, 1935b, pp. 493-497, figs. 1-3.

species. Devonian. 41238. Junction City, Kentucky Read, 1936, p. 223, fig. 8.

Clasteria

australis Dana (counterpart). Pennsylvanian. 3695. Newcastle, New South Wales, Australia. Dana, 1849, p. 719, pl. 14: fig. 3.

Clepsydropsis

bertrandi Read and Campbell. Devonian. 41261. New Albany, Indiana. Read and Campbell, 1939, p. 446, pl. 3: fig. 4.

campbelli Read. Devonian. 41263. Junction City, Kentucky. Read, 1936, p. 222, figs. 11, 13.

chaneyi Read and Campbell. Devonian. 41264. New Albany, Indiana. Read and Campbell, 1939, p. 446, pl. 2: fig. 4.

titan Read. Devonian. 41262. Junction City, Kentucky. Read, 1936, p. 222, fig. 7.

?Compsopteris

species. Permian (Belle Plains and Vale). 41772, 41779. Godwins Creek, Baylor County, and Lawn, Taylor County, Texas. Read and Mamay, 1964, pl. 18: fig. 2; pl. 19: fig. 7.

Conostichus

broadheadi Lesquereux. Pennsylvanian. 10250. Vernon County, Missouri. Lesquereux, 1880, p. 15, pl. B: figs. 1, 2.—White, 1899a, p. 12, pl. 2: figs. 1, 2.

broadheadi Lesquereux. Pennsylvanian. 10251. Vernon County, Missouri. White, 1899a, p. 12, pl. 2: figs. 3–5.

prolifer Lesquereux. Pennsylvanian. 6035. Vernon County, Missouri. White, 1899a, p. 13, pl. 2: fig. 6.

Cordaianthus

costatus Lesquereux. Pennsylvanian (Allegheny). 19058. Cannelton, Pennsylvania. Lesquereux, 1880, p. 540, pl. 80: fig. 1.

dichotomus Lesquereux. Pennsylvanian (Cherokee). 19212. Henry County, Missouri. Lesquereux, 1880, p. 546, pl. 76: fig. 6.

ebracteatus Lesquereux. Pennsylvanian ("Anthracite" Series). 19216. Pittston, Pennsylvania. Lesquereux, 1884, p. 844.

flexuosus Lesquereux. Pennsylvanian ("Anthracite" Series). 19217–18. Pittston, Pennsylvania. Lesquereux, 1884, p. 802, pl. 109: fig. 2.

ovatus Lesquereux. Pennsylvanian (Cherokee). 19187. Henry County, Missouri. Lesquereux, 1880, p. 545, pl. 76: fig. 5.

ovatus Lesquereux. Pennsylvanian (Cherokee). 6073, 19202. Henry County, Missouri. White, 1899a, p. 262, pl. 72: figs. 1, 2.

rugosus Lesquereux. Pennsylvanian ("Anthracite" Series). 19214. Shamokin, Pennsylvania. Lesquereux, 1884, pp. 803–804.

rugosus scaber Lesquereux. Pennsylvanian (Allegheny). 19211. Mazon Creek, Illinois. Lesquereux, 1884, p. 804.

simplex Lesquereux. Pennsylvanian (Allegheny). 19007. Cannelton, Pennsylvania. Lesquereux, 1880, p. 538, pl. 76: fig. 4.

spicatus Lesquereux. Pennsylvanian (Pottsville). 19226. Pittston, Pennsylvania. Lesquereux, 1884, p. 802, pl. 109: fig. 1.

cf. *Cordaianthus*

longibracteatus Florin. Pennsylvanian (Spotted Ridge). 40727. Crook County, Oregon. Mamay and Read, 1956, p. 221, pl. 36: fig. 10.

species. Pennsylvanian (Pottsville?) 40897. Clay City quadrangle, Indiana. Jackson, 1917, p. 421, pl. 9: fig. 8.

Cordaicarpon

apiculatus Lesquereux. Pennsylvanian (Allegheny). 25322. Cannelton, Pennsylvania. Lesquereux, 1880, p. 551, pl. 83: fig. 6a.

cinctus Lesquereux. Pennsylvanian ("Anthracite" Series). 25346, 25379. Pittston, Pennsylvania. Lesquereux, 1884, p. 804, pl. 109: figs. 5, 6.

gutbieri Grand'Eury. Pennsylvanian (Allegheny). 25328–32. Cannelton, Pennsylvania. Lesquereux, 1880, p. 549, pl. 83: figs. 8–11; 1884, p. 804, pl. 109: fig. 3.

lineatus Lesquereux. Pennsylvanian (Allegheny). 25345. Cannelton, Pennsylvania. Lesquereux, 1884, p. 805, pl. 111: fig. 16.

mansfieldi Lesquereux. Pennsylvania (Allegheny). 25977–79. Cannelton, Pennsylvania. Lesquereux, 1880, p. 537, pl. 85: fig. 21; pl. 87: fig. 8.

ovatus Gran'Eury. Pennsylvanian (Allegheny). 25305. Cannelton, Pennsylvania. Lesquereux, 1880, p. 550, pl. 83: fig. 7.

species. Pennsylvanian (Weber). 39162. Evans Peak, Colorado. Read, 1934, p. 88, pl. 16: fig. 6.

Cordaistrobus

grand'euryi Lesquereux. Pennsylvanian (Allegheny). 19168–69. Cannelton, Pennsylvania. Lesquereux, 1878, p. 328; 1880, p. 552, pl. 82: fig. 3.

Cordaites

communis Lesquereux. Pennsylvanian (Cherokee). 5418, 5546, 5702. Henry County, Missouri. White, 1899a, p. 260, pl. 3: fig. 1; pl. 16; pl. 46.

communis Lesquereux. Pennsylvanian (Cherokee). 18946–47. Clinton, Missouri. Lesquereux, 1878, p. 320.

communis Lesquereux. Pennsylvanian (Vandever). 41989. Durham, Georgia. Allen and Lester, 1954, pl. 36: fig. 3.

costatus Lesquereux. Pennsylvanian (Allegheny). 19059–60. Cannelton, Pennsylvania. Lesquereux, 1878, p. 323; 1880, p. 540, pl. 86: figs. 1, 2.

gracilis Lesquereux. Pennsylvanian (Allegheny). 19160. Morris, Illinois. Lesquereux, 1878, p. 322; 1880, p. 539, pl. 77: fig. 4.

grandifolius Lesquereux. Pennsylvanian. 19103–05. Pittston, Pennsylvania. Lesquereux, 1878, p. 318; 1880, p. 530, pl. 77: fig. 2.

lacoei Lesquereux. Pennsylvanian ("Anthracite" Series). 18917–18, 18920. Pittston, Pennsylvania. Lesquereux, 1880, p. 535, pl. 87: figs. 2–4.

mansfieldi Lesquereux. Pennsylvanian (Allegheny). 19007, 19017, 25978, 27150. Cannelton, Pennsylvania. Lesquereux, 1878, p. 321; 1880, p. 537, pl. 76: fig. 4; pl. 78: fig. 1; pl. 87: fig. 8.

radiatus Lesquereux. Pennsylvanian (Allegheny). 18907–08, 18911. Cannelton, Pennsylvania. Lesquereux, 1880, p. 540, pl. 87: figs. 5, 6.

robbi Dawson. Pennsylvanian (Pottsville). 40883. Clay City quadrangle, Indiana. Jackson, 1917, p. 420, pl. 7: fig. 9.

serpens Lesquereux. Pennsylvanian (Allegheny). 19033–36. Cannelton, Pennsylvania. Lesquereux, 1878, p. 324; 1880, p. 542, pl. 79: figs. 1–4.

serpens Lesquereux. Pennsylvanian. 41985. Georgia. Allen and Lester, 1954, pl. 37: fig. 5.

cf. *Coronostoma*

Pennsylvanian (McLeansboro). 41207. Berryville, Illinois. Mamay and Yochelson, 1962, pl. 33: fig. 31.

Crocalophyton

readi Andrews and Alt. Devonian-Mississippian. 40797–98. Boston, Kentucky. Andrews and Alt, 1956, pp. 355–371, pls. 4–10.

Cryptozoon or *Greysonia*(?)

Paleozoic. 41139. Shelby, Alabama. Butts, 1926, pl. 9: fig. 17.

Cryptozoon

bassleri Wieland. Cambrian-Ordovician ("Ozarkian"). 41090. Upper Conococheague, Pennsylvania. Wieland, 1914, p. 239, pl. 18: fig. 1.

proliferum fruit conceptacles. Early Ordovician. 41138. Scotia, Pennsylvania. Wieland, 1914, p. 244, fig. 2.

Cyclocarpon

species. Permian (Hermit). 38064. Grand Canyon, Arizona. White, 1929, p. 113, pl. 49: fig. 4.

Cyclopterus

cf. *C. acadica*. Devonian. 8326. Yates County, New York. Penhallow, 1893, p. 107, pl. 9: fig. 2.

alleghanensis Meek. Mississippian (Pocono). 2009. Lewis tunnel, Virginia. Meek, 1875, p. 43, pl. 1: fig. 2.

halliana Goepert. Devonian. 41131. Chemung County, New York. Hall, 1843, p. 274, illustr. 127: fig. 1.

lescuriana Meek. Mississippian (Pocono). 1447. Lewis tunnel, Virginia. Meek, 1875, p. 41, pl. 2: fig. 1.

virginiana Meek. Mississippian (Pocono). 2008. Lewis tunnel, Virginia. Meek, 1875, p. 43, pl. 1: fig. 3.

Cylindrites

striatus Lesquereux. Devonian (Waverly). 7153. Berea, Ohio. Lesquereux, 1890, p. 7, pl. 1: fig. 3.

Cystosporites

varius (Wicher) Dijkstra. Pennsylvanian (Secor coal). 41196. McAlester, Oklahoma. Mamay and Yochelson, 1962, pl. 33: fig. 20.

Dactylophyllum

johsoni Read. Pennsylvanian (Weber). 39157. Evans Peak, Colorado. Read, 1934, p. 91, pl. 18: figs. 2, 3.

Dadoxylon?

meridionale White. Early Permian. 32043a–c. Rio Grande do Sul, Brazil. White, 1908, p. 583, pl. 14: figs. 1–4.

nummularium White. Early Permian. 32045a, 32045c. Rio Grande do Sul, Brazil. White, 1908, p. 579, pl. 13: figs. 1–4.

Danaeites

emersoni Lesquereux. Pennsylvanian (Monongahela). 12710–11. St. Clairsville, Ohio. Lesquereux, 1880,

p. 157, pl. 28: figs. 1, 2.—Read and Mamay, 1964, pl. 11: fig. 3.
emersoni Lesquereux. Late Pennsylvanian. 41764. Lonaconing, Maryland. Read and Mamay, 1964, pl. 12: fig. 1.
macrophyllus (Newberry) Lesquereux. Pennsylvanian. 12718. Youngstown, Ohio. Lesquereux, 1880, p. 159, pl. 25: figs. 4–6.

Daubreeia

pateraeformis (Germar) Zeiller. Pennsylvanian. 9667, 9682, 9686. Onaga, Kansas. Sellards, 1908, p. 433, pl. 52: figs. 1, 2; pl. 55: fig. 4.

Dechenia

striata Lesquereux. Pennsylvanian (Allegheny). 10259. Alto, Illinois. Lesquereux, 1880, p. 430, pl. 67: fig. 3.

Derbyella

aurita White. Early Permian. 31991–93. Santa Catharina, Brazil. White, 1908, p. 545, pl. 9: figs. 1–3.

Desmiophyllum

gracile Lesquereux. Pennsylvanian (Allegheny). 19251. Cannelton, Pennsylvania. Lesquereux, 1878, p. 333; 1880, p. 557, pl. 82: fig. 1.

Dichophyllum

moorei Elias. Pennsylvanian. 41141. Garnett, Kansas. Elias, 1936, fig. 7, illustr. 2.

?*Dichophyllum*

species. Permian (Abo). 41221. Spanish Queen mine, 6 miles southwest of Jemez Springs, New Mexico. Read and Mamay, 1964, pl. 13: fig. 1.

Dicranophyllum

dichotomum Lesquereux. Pennsylvanian (Allegheny). 25108. Cannelton, Pennsylvania. Lesquereux, 1880, p. 553, pl. 87: fig. 9.
dimorphum Lesquereux. Pennsylvanian (Allegheny). 25104–06. Cannelton, Pennsylvania. Lesquereux, 1878, pp. 329–330; 1880, p. 554, pl. 83: figs. 1, 3.

rigidum Mamay and Read. Pennsylvanian (Spotted Ridge). 40733–740. Crook County, Oregon. Mamay and Read, 1956, p. 219, pl. 37: figs. 3–10.
 species. Pennsylvanian (Cherokee). 6076. Henry County, Missouri. White, 1899a, p. 272, pl. 41: fig. 10; pl. 73: fig. 1.

Dictyo-cordaites

lacoei Dawson. Devonian (Catskill). 10200. Meshoppen, Pennsylvania. Dawson, 1889, pp. 1–3, illustr.; 1890, p. 3, fig. 1.

Dictyotites

fasciolus Penhallow. Devonian (Erian). 5406, 25098. West Hurley, New York. Penhallow, 1893, p. 110, pl. 10: fig. 10a; pl. 12: fig. 10b.

maximus Penhallow. Devonian (Marcellus). 5407. Cayuga Lake, New York. Penhallow, 1893, p. 111, pl. 11: fig. 11.

Dicchnia

kentuckiensis Read. Devonian (New Albany). 41245–47. Junction City, Kentucky. Read, 1935a, pl. 30: figs. 1–5; pl. 31: fig. 1–4; pl. 32: figs. 1–8; pl. 33: figs. 1–3, 5, 6.

Dimeripteris

incerta (Dawson) White. Devonian. 36454–56. Perry, Maine. Smith and White, 1905, p. 53, pl. 2: figs. 7–9.

recurva (Dawson) White. Devonian. 36451–53. Perry, Maine. Smith and White, 1905, p. 56, pl. 2: figs. 4–6.

Diplothmema

aldrichi White. Pennsylvanian (Pottsville). 15031, 15044, 40093. Birmingham quadrangle and Warrior, Alabama. White, 1943, p. 97, pl. 31: figs. 3, 7; pl. 34: fig. 3.

aldrichi anthracitica White. Pennsylvanian (Pottsville). 40091a–b. Pottsville Gap, Pennsylvania. White, 1943, p. 98, pl. 33: figs. 6, 9; pl. 34: fig. 2.

cheathami (Lesquereux) White. Pennsylvanian (Pottsville). 15026–27, 15039, 40104, 40106a–b. Tracy, Tennessee, and Blossburg, Alabama. White, 1943, p. 95, pl. 28: figs. 1–3, 5–10.

cheathami antiqua White. Pennsylvanian (Pottsville). 40105a-b. Tazewell quadrangle, West Virginia. White, 1943, p. 96, pl. 28: figs. 4, 12.

cheathami minor White. Pennsylvanian (Pottsville). 40111a-b. Buckhannon quadrangle, West Virginia. White, 1943, p. 96, pl. 28: figs. 11, 13.

composita White. Pennsylvanian (Pottsville). 40099a-d, 42005. Bluestone Junction, West Virginia. White, 1943, p. 99, pl. 32: figs. 4-7.

erectiloba White. Pennsylvanian (Pottsville). 40092. Tazewell quadrangle, West Virginia. White, 1943, p. 100, pl. 33: figs. 7-8.

geniculatum (Germar and Kaulfuss) Stur. Pennsylvanian. 41013-14. Belleville, Missouri. White, 1893a, pp. 44-46, pl. 1: figs. 1, 2.

glenni White. Pennsylvanian (Pottsville). 40128a-f. Wayne County, West Virginia. White, 1943, p. 95, pl. 27: figs. 10-17.

halberstadii White. Pennsylvanian (Pottsville). 40107a-b. Pottsville, Pennsylvania. White, 1943, p. 96, pl. 30: figs. 1, 2.

mendenhalli White. Pennsylvanian (Pottsville). 40103a-b, 42007. Horsepen, Virginia. White, 1943, p. 100, pl. 35: figs. 8, 10.

microphylla (Lesquereux) White. Pennsylvanian (Pottsville). 40108-10, 42006. Tremont, Pennsylvania; Tuscaloosa and Montevallo, Alabama. White, 1943, p. 94, pl. 30: figs. 3, 5-7.

minor White. Pennsylvanian (Pottsville). 40095. McKean County, Pennsylvania. White, 1943, p. 98, pl. 31: fig. 6.

morrowensis White. Pennsylvanian (Pottsville). 15012, 40100. Washington County, Arkansas, and Raleigh quadrangle, West Virginia. White, 1943, p. 99, pl. 35: fig. 1; pl. 34: fig. 1.

obtusiloba (Brongniart) Stur. Pennsylvanian (Pottsville). 40102a-c. Careyville, Tennessee. White, 1943, p. 97, pl. 30: fig. 4; pl. 35: figs. 7, 9.

patentissima (Ettinghausen) Stur. Pennsylvanian (Weber). 39153. Evans Peak, Colorado. Read, 1934, p. 87, pl. 16: fig. 3.

pudica White. Early Pennsylvanian. 40088. Horsepen, Virginia. White, 1943, p. 96, pl. 29: fig. 4.

pygmaeoides White. Pennsylvanian (Pottsville). 40101a, b, d. Winston, West Virginia. White, 1943, p. 100, pl. 35: figs. 3, 5, 6.

reniformis White. Pennsylvanian (Pottsville). 40094a-c. Middlesboro, Kentucky. White, 1943, p. 97, pl. 31: figs. 1, 2, 4, 5.

spectabilis White. Pennsylvanian (Pottsville). 40087a-e. Estellville quadrangle, Virginia. White, 1943, p. 96, pl. 29: figs. 1-3, 5, 6.

subdecipliens White. Pennsylvanian (Kanawha). 40077a-b. Kanawha Falls quadrangle, West Virginia. White, 1943, p. 95, pl. 11: figs. 9-11.

trifoliolata (Artis) Stur. Pennsylvanian (Kanawha). 40096-98. Kanawha Falls quadrangle, West Virginia. White, 1943, p. 98, pl. 32: figs. 1-3.

trifoliolata kanawensis White. Pennsylvanian (Kanawha). 13618, 13622, 40089-90. Kanawha County, West Virginia. White, 1943, p. 98, pl. 33: figs. 1-5.

Discinites

species. Permian (Belle Plains). 40626-29. Baylor County, Texas. Mamay, 1954a, pp. 7-11, figs. 1-5.

Dolerophyllum

pennsylvanicum Dawson. Pennsylvanian. 19617-18. Mazon Creek, Illinois, and Olyphant, Pennsylvania. Dawson, 1890, pp. 7-8.

Doleropteris

pennsylvanicum (Dawson) White. Pennsylvanian (LeRoy). 19620-21. Lawrence and Garnett, Kansas. White, 1903, p. 107.

Eltovaria

bursiformis White. Permian (Hermit). 38066. Grand Canyon, Arizona. White, 1929, p. 114, pl. 50: fig. 4.

Equisetites

calamitinooides White. Early Permian. 31913. Santa Catharina, Brazil. White, 1908, p. 419, pl. 5: fig. 7.

gracilis Lesquereux. Pennsylvanian (Pottsville). 18236. Dade County, Georgia. Lesquereux, 1884, p. 729, pl. 90: fig. 5.

occidentalis Lesquereux. Pennsylvanian (Allegheny). 18250, 18252. Mazon Creek, Illinois. Lesquereux, 1880, p. 62, pl. 3: figs. 15, 16.

Eremopteris

artemisiaefolia (Sternberg) Schimper. Pennsylvanian (Pottsville). 15095. Blossburg, Pennsylvania. White, 1943, p. 92, pl. 25: figs. 4, 5.

bilobata White. Pennsylvanian (Cherokee). 5699–5701, 6036. Henry County, Missouri. White, 1899a, p. 19, pl. 4; pl. 5: figs. 4–6.

cheathami Lesquereux. Pennsylvanian (Pottsville). 15009, 15025–27. Washington County, Arkansas, and Tracy, Tennessee. Lesquereux, 1884, p. 770, pl. 104: figs. 2–4.

crenulata Lesquereux. Pennsylvanian (Pottsville). 40146. Brookville, Alabama. White, 1943, p. 90, pl. 23: fig. 10.

elegans (Ettinghausen) Lesquereux. Pennsylvanian. 15083. Port Byron, Illinois. Lesquereux, 1880, p. 294, pl. 53: fig. 7.

gracilis White. Pennsylvanian (Pottsville). 40129a–e, 40130, 40133a–b. Corbin, Kentucky; Coeburn, Virginia; Kanawha Falls quadrangle, West Virginia. White, 1943, p. 91, pl. 25: figs. 6, 7; pl. 26: figs. 1–10.

lincolniana White. Pennsylvanian (Pottsville). 40135–140. Dorchester, Virginia, and various West Virginia localities. White, 1943, p. 91, pl. 24: figs. 1–8.

lincolniana White. Pennsylvanian (Pottsville). 40960. New Lincoln mine, Pennsylvania. White, 1900, p. 869, pl. 192: fig. 1.

lincolniana antiqua White. Pennsylvanian (Pottsville). 40134a–b, 42078. Littleton Station, Alabama. White, 1943, p. 91, pl. 25: figs. 8–10.

microphylla Lesquereux. Pennsylvanian. 41993. Georgia. Allen and Lester, 1954, pl. 34: fig. 2.

missouriensis Lesquereux. Pennsylvanian (Cherokee). 30853. Henry County, Missouri. Lesquereux, 1880, p. 295, pl. 53: fig. 8.

missouriensis Lesquereux. Pennsylvanian (Cherokee). 5657, 5659, 5670, 5681. Henry County, Missouri. White, 1899a, p. 16, pl. 5: figs. 1–3; pl. 6: fig. 1.

neffi White. Pennsylvanian (Pottsville). 40143a–c, 40144. Nicholas quadrangle, West Virginia, and Mahoning County, Ohio. White, 1943, p. 90, pl. 23: figs. 1–5.

solida (Lesquereux) White. Pennsylvanian (Allegheny). 14213–14. Mazon Creek, Illinois. White, 1903, p. 88.

strigosa White. Pennsylvanian (Pottsville). 40145. Rush Run, West Virginia. White, 1943, p. 90, pl. 23: figs. 6, 7.

subelegans White. Pennsylvanian (Pottsville). 40141–42. Washington County, Arkansas, and Pottsville Gap, Pennsylvania. White, 1943, p. 91, pl. 24: figs. 9–11.

trappensis White. Pennsylvanian (Pottsville). 40127a–h. Trap Hill, West Virginia. White, 1943, p. 92, pl. 27: figs. 1–9.

Ernestiodendron

filiciforme (Schlotheim pars.) Florin. Permian (Wichita). 41297. 8 miles north of Dundee, Texas. Florin, 1939, pls. 125–126: figs. 5, 6.

Fern rachids

Mississippian. 39395–98. De Queen quadrangle, Arkansas. White, 1936c, p. 64, pl. 10: figs. 24–25; pl. 11: figs. 24, 27.

Fern?

Devonian. 8324. Bristol Center, New York. Penhallow, 1893, p. 107, pl. 9: fig. 1.

Fryopsis

abbensis (Read) Wolfe. Mississippian (Bluefield). 40680. Abbs Valley, Tazewell County, Virginia. Read and Mamay, 1964, pl. 3: fig. 1.

Fucoides?

duplex Hall. Late Cambrian. 41129. Pictured Rocks, Lake Superior. Foster and Whitney, 1851, p. 226, pl. A23.

Fucoides

cauda-galli Vanuxem. Devonian. 41132. New York. Vanuxem, 1839, p. 128, fig. 30.

Gangamopteris

obovata (Carruthers) White. Early Permian. 31963–70. Santa Catharina, Brazil. White, 1908, p. 525, pl. 8: figs. 1–7.

Gigantopteris

americana White. Permian (Wichita). 34061-79, 34081-83. Fulda, Texas. White, 1912, pp. 514-15, 16, pl. 43; pl. 44; pl. 45; pl. 46: figs. 1-3; pl. 47: figs. 1-4; pl. 48: figs. 1-6; pl. 49: figs. 1-7.

americana White. Early Permian. 41167, 41176. Glasscock County, Texas. Adams, 1933, p. 1391, fig. 1.

americana White. Permian (Belle Plains). 41768. Emily Irish grant, Baylor County, Texas. Read and Mamay, 1964, pl. 17: fig. 1.

americana White. Permian (Clyde). 41771. Fulda, Texas. Read and Mamay, 1964, pl. 18: fig. 1.

new species A. Permian (Lueders). 41775. Lake Kemp spillway, Baylor County, Texas. Read and Mamay, 1964, pl. 19: fig. 1.

new species B. Permian (Vale). 41776. Lawn, Taylor County, Texas. Read and Mamay, 1964, pl. 19: fig. 2.

Girtya

pennsylvanica Read. Mississippian (Pocono). 40651, 40696-97. Tionesta, Pennsylvania. Read, 1955, p. 21, pl. 15: figs. 1-3; pl. 16: fig. 3.

Glenopteris

lineata Sellards (counterpart). Permian. 7746. Dickinson County, Kansas. Sellards, 1900, p. 185, pl. 37: fig. 3.

simplex Sellards (counterpart). Permian. 8082. Dickinson County, Kansas. Sellards, 1900, p. 184, pl. 39: fig. 1.

simplex Sellards. Permian (Wellington). 41766. Banner City, Kansas. Read and Mamay, 1964, pl. 16: fig. 2.

splendens Sellards. Permian (Wellington). 8074, 41767. 3 miles south of Banner City and 3½ miles southeast of Elmo, Kansas. Read and Mamay, 1964, pl. 16: figs. 3, 4.

Glossopteris

ampla Dana. Permian. 41296. New South Wales, Australia. Dana, 1849, p. 717, pl. 13: fig. 1b.

ampla Dana. Early Permian. 31943. Santa Catharina, Brazil. White, 1908, p. 509, pl. 6: fig. 9.

cf. ***G. ampla*** Dana. Early Permian (Tubaraco Series). 40623. Santa Catharina, Brazil. Read, 1941, p. 77, pl. 4: figs. 3, 5.

browniana Brongniart. Permian. 1357. Newcastle, New South Wales, Australia. Dana, 1849, p. 716, pl. 12: fig. 13c.

browniana Brongniart. Permian (Tubarao and Itarare Series). 40596-97, 40619. Parana, Brazil. Read, 1941, p. 81, pl. 3: fig. 1; pl. 5: figs. 3-4, 6.

indica (Brongniart) Schimper. Early Permian. 31940-42. Santa Catharina, Brazil. White, 1908, p. 503, pl. 6: figs. 5, 7-8.

indica Schimper. Early Permian (Tubarao Series). 40598-40600. Parana and Santa Catharina, Brazil. Read, 1941, p. 79, pl. 4: figs. 1, 2, 4; pl. 5: figs. 1, 2, 5.

indica Schimper. Permian. 41998-99. Mt. Glossopteris, Antarctica. Schopf, 1962, p. 31, pl. 11: figs. 1a, 1b.

occidentalis White. Early Permian. 31944-47, 31962. Santa Catharina, Brazil. White, 1908, p. 511, pl. 7: figs. 1-4.

species. Early Permian. 31948-49. Santa Catharina, Brazil. White, 1908, p. 517, pl. 7: figs. 5, 6.

Gomphostrobus

bifidus (Geinitz) Zeiller and Potonie. Early Permian. 41155. Fairplay, Colorado. Florin, 1939, pls. 151-152: fig. 46.

bifidus (Geinitz) Zeiller and Potonie. Permian (Abo). 41223. Spanish Queen mine, 6 miles southwest of Jemez Springs, New Mexico. Read and Mamay, 1964, pl. 13: fig. 3.

Guycampbellia

microphylla (Read and Campbell) Hoskins and Cross. Mississippian (New Albany). 41276. New Albany, Indiana. Hoskins and Cross, 1951, p. 695, figs. 13-20.

Gymnosperinus

ament. Permian (Hermit). 38067. Grand Canyon, Arizona. White, 1929, p. 115, pl. 51: fig. 6.

Haliserites

chondriformis Penhallow. Devonian (late Chemung). 5405. West Hurley, New York. Panhallow, 1893, p. 110, pl. 11: fig. 9.

dechenianus lineatus Penhallow. Devonian (late Chemung). 5409. Lanesboro, Pennsylvania. Penhallow, 1893, p. 109, pl. 12: fig. 7.

lineatus Penhallow. Devonian (late Chemung). 5404, 25091. West Hurley, New York, and Factoryville, Pennsylvania. Penhallow, 1893, p. 110, pl. 10: fig. 8a; pl. 11: fig. 8b.

Haliserites?

Devonian (Erian). 8329. Monroe, New York. Penhallow, 1893, p. 107, pl. 9: fig. 4.

Halonia

mansfieldi Lesquereux. Pennsylvanian (Allegheny). 15808. Cannelton, Pennsylvania. Lesquereux, 1880, p. 414, pl. 67: fig. 2.

tortuosa Schimper. Pennsylvanian. 15811. Peoria County, Illinois. Lesquereux, 1880, p. 413, pl. 61: figs. 1, 2.

Heterangium?

species. Mississippian (Stanley). 39404-05. De Queen quadrangle Arkansas, and Tuskahoma quadrangle, Oklahoma. White, 1936c, p. 60, pl. 11: figs. 21, 28; pl. 14: fig. 11.

Hierogamma

jeffreyi Read. Devonian. 41269. Junction City, Kentucky. Read, 1936, p. 223, fig. 10.

Hymenophyllites

adnascens Lindley and Hutton. Pennsylvanian. 40951. Colchester, Illinois. Lesquereux, 1870, p. 414, pl. 16: fig. 7.

alatus Brongniart. Pennsylvanian. 41071. Colchester, Illinois. Lesquereux, 1866, p. 437, pl. 39: fig. 1.

clarki Lesquereux. Pennsylvanian (Allegheny). 40947. Mazon Creek, Illinois. Lesquereux, 1870, p. 416, pl. 16: fig. 1.

inflatus Lesquereux. Pennsylvanian. 41072. Du Quoin, Illinois. Lesquereux, 1870, p. 414, pl. 16: fig. 6.

mollis Lesquereux. Pennsylvanian (Allegheny). 40948, 40952, 40954. Mazon Creek, Illinois. Lesquereux, 1870, p. 418, pl. 18: figs. 4-6.

strongi Lesquereux. Pennsylvania (Allegheny). 19431. Mazon Creek Illinois. Lesquereux, 1870, p. 417, pl. 18: fig. 1.

thalliformis Lesquereux. Pennsylvanian. 40949-50. Mazon Creek and Colchester, Illinois. Lesquereux, 1870, p. 417, pl. 16: figs. 3, 5.

Hysterites

brasiliensis White. Early Permian. 31912. Santa Catharina, Brazil. White, 1908, p. 415, pl. 5: fig. 2.

cordaites Grand'Eury. Pennsylvanian (Cherokee). 5418. Henry County, Missouri. White, 1899a, pp. 14, 260, pl. 3: fig. 1.

Ichnophycus

tridactylus Hall. Late Silurian. 41086-87. New Hartford, New York. Hall, 1852, p. 26, pl. 10: figs. 6, 7a-b.

Idiophyllum

rotundifolius Lesquereux. Pennsylvanian (Allegheny). 10258. Mazon Creek, Illinois. Lesquereux, 1880, pp. 159-161, pl. 23: fig. 11.

Kalymma

auriculata Read. Devonian. 41257. Junction City, Kentucky. Read, 1937, p. 88, pl. 23: fig. 6.

lirata Read. Devonian. 41255-56, 41258. Junction City, Kentucky, and Holy Cross, Kentucky. Read, 1936, p. 219, pl. 28: fig. 4; 1937, p. 87, pl. 23: figs. 1, 2; pl. 24: fig. 1.

resinosa Read. Devonian. 41259-60. Junction City, Kentucky. Read, 1937, p. 88, pl. 23: fig. 3; pl. 25: figs. 3, 4.

Knorria

chemungense (Hall) Arnold. Devonian (Chemung). 41128. Elmira, New York. Arnold, 1939, p. 283, pl. 2: figs. 1, 2.

compacta Lesquereux. Pennsylvanian. 15800-02. Thayer, Kansas. Lesquereux, 1884, p. 839.

Lacoea

seriata Read. Pennsylvanian (Forkston coal). 1626, 26213-14, 26217, 26219, 26235, 26241-42, 26247, 26249, 26251-52, 26256. Dutch Mountain, Pennsylvania. Read, 1946, p. 18, pl. 1: figs. 1-3, 5-14.

seriata Read. Pennsylvanian. 26261. Youngstown, Ohio. Read, 1946, p. 18, pl. 1: fig. 4.

Lebachia

americana Florin. Permian (Abo). 41142, 41144-54, 41280-84. Glorietta, La Cuava, and Canyonita, New Mexico. Florin, 1939, pls. 93/94: figs. 5, 7-13, 18-23; pls. 95/96: figs. 1-17, 19, 20.

garnettensis Florin. Permian (Wichita). 41256. 8 miles north of Dundee, Texas. Florin, 1939, pls. 53/54: figs. 3, 4.

garnettensis Florin. Permian (Wichita). 41298. 4½ miles southeast of Fulda, Texas. Florin, 1939, pl. 53/54: figs. 1, 2.

goeppertiana Florin. Early Permian. 41160-63. Reece, Kansas. Florin, 1939, pl. 49/50: figs. 1-6.

parvafolia Florin. Early Permian. 41143. Glorietta, New Mexico. Florin, 1939, pl. 39/40: fig. 7.

Lepidocystis

angularis Lesquereux. Pennsylvanian. 25255-56. Port Griffith, Pennsylvania. Lesquereux, 1880, p. 456, pl. 69: fig. 17.

chesterensis White. Mississippian (Wedington). 39548. Winslow quadrangle, Arkansas. White, 1936b, p. 34, pl. 6: fig. 2.

fraxiniformis (Goeppert) Lesquereux. Pennsylvanian. 25165. Pittston, Pennsylvania. Lesquereux, 1880, p. 457, pl. 69: fig. 22.

inquisitus White. Devonian. 36471-73. Perry, Maine. Smith and White, 1905, p. 75, pl. 4: figs. 12-14.

jenneyi White. Pennsylvanian (Cherokee). 6055. Henry County, Missouri. White, 1899a, p. 215, pl. 59: fig. 3.

lineatus Lesquereux. Pennsylvanian. 25254. Port Carbon, Pennsylvania. Lesqueruex, 1880, p. 454, pl. 69: fig. 4.

missouriensis White. Pennsylvanian (Cherokee). 6089, 6099, 41060. Henry County, Missouri. White, 1899a, p. 216, pl. 61: figs. 1b, 2; pl. 62: fig. b; pl. 64: fig. b.

obtusus Lesquereux. Pennsylvanian ("Anthracite" Series). 25246. Pottsville, Pennsylvania. Lesquereux, 1880, p. 455, pl. 69: figs. 6, 7.

pectinatus Lesquereux. Pennsylvanian ("Anthracite" Series). 25252. Pittston, Pennsylvania. Lesquereux, 1880, p. 454, pl. 69: fig. 3.

vesicularis Lesquereux. Pennsylvanian ("Anthracite" Series). 25228. Pittston, Pennsylvania. Lesquereux, 1880, p. 457, pl. 69: fig. 20.

?Lepidodendroid

branchlet. Pennsylvanian (Spotted Ridge). 40730. Crook County, Oregon. Mamay and Read. 1956, p. 214, pl. 36: fig. 13.

Lepidodendron

aculeatum Sternberg. Pennsylvanian (Pottsville). 40885, 40901. Clay City quadrangle, Indiana. Jackson, 1917, p. 413, pl. 8: fig. 2; pl. 9: fig. 14.

andrewsi Lesquereux. Pennsylvanian (Allegheny). 15430. Mazon Creek, Illinois. Lesquereux, 1880, p. 389, pl. 64: fig. 6.

boylensis Read. Devonian. 41278. Junction City, Kentucky. Read, 1936, p. 226, pl. 29: fig. 3.

brittisi Lesquereux. Pennsylvanian (Cherokee). 15482, 30854. Henry County, Missouri. Lesquereux, 1880, pl. 368, pl. 63: figs. 1, 2.

brittisi Lesquereux. Pennsylvanian (Cherokee). 5640, 6039-40, 6042, 15488. Henry County, Missouri. White, 1899a, p. 188, pl. 52: figs. 1, 3; pl. 53: fig. 1; pl. 54: figs. 1, 2.

chemungense (Hall) Hall. Devonian. 41128. Elmira, New York. Hall, 1863, p. 113: fig. 6.

choctavense White. Pennsylvanian (McAlester). 6680, 6752. McAlester, Oklahoma. White, 1899b, p. 528, pl. 68: fig. 14.

clypeatum Lesquereux. Pennsylvanian (Pottsville). 40867. Bloomington quadrangle, Indiana. Jackson, 1917, p. 412, pl. 5: fig. 7.

corrugatum Dawson. Mississippian. 41095. Akron, Ohio. Dawson, 1862, p. 313, pl. 12: fig. 10.

cuspidatum Lesquereux. Pennsylvanian ("Anthracite" Series). 15437. Plymouth, Pennsylvania. Lesquereux, 1880, p. 388, pl. 64: fig. 7.

cyclostigma Lesquereux. Pennsylvanian (Cherokee). 15501. Henry County, Missouri. Lesqueruex, 1880, p. 394, pl. 62: fig. 5.

gaspeanum Dawson. Devonian. 41096. Summit, New York. Dawson, 1862, p. 312, pl. 14: fig. 27.

henbesti White. Mississippian (Wedington). 39514, 39517-22. Winslow quadrangle, Arkansas. White, 1936b, p. 26, pl. 6: figs. 1, 4-9.

lanceolatum Lesquereux. Pennsylvanian (Cherokee). 8794. Henry County, Missouri. White, 1899a, p. 192, pl. 53: fig. 2.

lanceolatum Lesquereux. Pennsylvanian (Vandever). 41980, 41992. Durham, Georgia. Allen and Lester, 1954, pl. 38: figs. 1, 4.

marginatum (Presl) Lesquereux. Pennsylvanian (Cherokee). 15460. Henry County, Missouri. Lesquereux, 1884, p. 784, pl. 107: fig. 3.

novalbaniense Read and Campbell. Devonian. 41285. Junction City, Kentucky. Read and Campbell, 1939, p. 443, pl. 5: figs. 2, 4.

obovatum Sternberg. Pennsylvanian (Pottsville). 2248. Searles, Alabama. Butts, 1926, p. 214, pl. 68: figs. 1-3.

obovatum Sternberg. Pennsylvanian (Pottsville). 40878, 40881, 40884, 40889, 40902. Clay City quadrangle, Indiana. Jackson, 1917, p. 412, pl. 6: fig. 17; pl. 7: fig. 7; pl. 8: figs. 1, 6; pl. 9: fig. 15.

occidentale White Mississippian (Wedington). 39523-24. Winslow quadrangle, Arkansas. White, 1936b, p. 27, pl. 5: figs. 5, 8.

pedroanum (Carruthers) Zeiller. Early Permian. 40601-05. Santa Catharina and Parana, Brazil. Read, 1941, p. 83, pl. 6: fig. 9; pl. 7: figs. 1-3; pl. 8: figs. 1-3, 6.

peruvianum Gothan. Mississippian. 41002. Paracas Peninsula, Peru. Read, 1938a, p. 402: fig. 4.

purduei White. Mississippian (Wedington). 39525. Winslow quadrangle, Arkansas. White, 1936b, p. 28, pl. 5: fig. 9.

rigidum Lesquereux. Pennsylvanian (Pottsville). 15515-17. Dade County, Georgia. Lesquereux, 1884, p. 839.

rimosum retocorticatum White. Pennsylvanian (Cherokee). 6043, 15280. Henry County, Missouri. White, 1899a, p. 196, pl. 54: figs. 3, 4.

scobiniforme Meek. Mississippian (Pocono). 41063. Brushy Mountain, Virginia. Butts, 1941, pl. 134: fig. 4.

scobiniformis Meek. Mississippian (Pocono). 41062. Lewis tunnel, Virginia. Meek, 1875, p. 38, pl. 1: fig. 1.

scutatum Lesquereux. Pennsylvanian (Cherokee). 15448. Henry County, Missouri. Lesquereux, 1880, p. 369, pl. 63: fig. 6.

scutatum Lesquereux. Pennsylvanian (Cherokee). 6044-46, 6074. Henry County, Missouri. White, 1899a, p. 198, pl. 45: fig. 4; pl. 55: figs. 1, 2; pl. 72: fig. 4.

sternbergi Brongniart. Pennsylvania. 16003. Braceville, Illinois. Lesquereux, 1884, p. 783, pl. 107: fig. 2.

subclypeatum White. Mississippian (Jackfork). 39445-47. Tuscaloosa quadrangle, Oklahoma. White, 1936c, p. 55, pl. 12: figs. 16, 17; pl. 13: fig. 5.

cf. *L. veltheimianum* Sternberg. Mississippian (Wedington). 39526. Winslow quadrangle, Arkansas. White, 1936b, p. 29, pl. 5: fig. 4.

wedingtonense White. Mississippian (Wedington). 39527-35. Winslow quadrangle, Arkansas. White, 1936b, p. 29, pl. 7: figs. 1-4, 6, 7, 9, 10; pl. 9: fig. 6.

yohoense Jackson. Pennsylvanian (Pottsville). 40866. Bloomington quadrangle Indiana. Jackson, 1917, p. 411, pl. 5: fig. 6.

species. Mississippian (Wedington). 39536-37. Winslow quadrangle, Arkansas. White, 1936b, p. 31, pl. 7: fig. 8; pl. 8: fig. 23.

Lepidodendropsis

scobiniformis (Meek) Read Mississippian (Pocono). 40659, 40671-74, 40692. Montgomery County, Virginia, and Pottsville, Pennsylvania. Read, 1955, p. 26, pl. 19: figs. 3-5; pl. 20: figs. 1-3.—Read and Mamay, 1964, pl. 2: fig. 2.

sigillarioides Jongmans, Gothan and Darrah. Mississippian (Pocono). 40669-70. Pine Grove, Pennsylvania. Read, 1955, p. 27, pl. 19: figs. 1, 2.

vandergrachi Jongmans, Gothan, and Darrah. Mississippian (Pocono). 40642-43, 40702. Pottsville and Pine Grove, Pennsylvania. Read, 1955, p. 26, pl. 18: fig. 4; pl. 20: figs. 4, 5.

Lepidophloios

dilatatus Lesquereux. Pennsylvanian. 15941-47. Canfieldton, Pennsylvania, and Henry County, Missouri. Lesquereux, 1884, p. 781, pl. 105: figs. 1, 2, 4.

ichthyoderma Lesquereux. Pennsylvanian (Allegheny). 15974. Morris, Illinois. Lesquereux, 1880, p. 426, pl. 68: fig. 10.

sigillarioides Lesquereux. Pennsylvanian (Cherokee). 6173. Henry County, Missouri. Lesquereux, 1880, p. 425, pl. 68: fig. 8.

van ingeni White. Pennsylvanian (Cherokee). 6047–53, 6061, 6075, 6092, 15944, 15947. Henry County, Missouri. White, 1899a, p. 205, pl. 56: figs. 1–8; pl. 61: fig. 1c; pl. 62; pl. 63: figs. 1, 5.

species. Pennsylvanian (Allegheny). 15945, 15956. Cannelton, Pennsylvania. Lesquereux, 1880, p. 427, pl. 68: figs. 6, 7.

Lepidophyllum

acuminatum Lesquereux. Pennsylvanian. 15885. Danville, Illinois. Lesquereux, 1880, p. 450, pl. 69: fig. 37.

affine Lesquereux (counterpart). Pennsylvanian ("Anthracite" Series). 16240. Yatesville, Pennsylvania. Lesquereux, 1880, p. 447, pl. 69: fig. 31.

brevifolium Lesquereux. Pennsylvanian (McAlester). 6492, 6498, 6501–02, 6741. McAlester, Oklahoma. White, 1899b, p. 529, pl. 68: figs. 15–18.

campbellianum Lesquereux. Pennsylvanian (Pottsville). 16376–80. Pittston Pennsylvania. Lesquereux, 1884, p. 786, pl. 107: figs. 6, 7.

coriaceum Lesquereux. Pennsylvanian (Allegheny). 15908. Cannelton, Pennsylvania. Lesquereux, 1884, p. 787, pl. 107: fig. 10.

cultriforme Lesquereux. Pennsylvanian (Allegheny). 16087–88. Cannelton, Pennsylvania. Lesquereux, 1884, p. 785, pl. 107: fig. 13; pl. 108: fig. 2.

elegans Lesquereux. Pennsylvanian (Allegheny). 16230–31. Mazon Creek, Illinois. Lesquereux, 1884, p. 787, pl. 107: fig. 11.

fallax Lesquereux. Pennsylvanian. 15896–98. Cannelton, Pennsylvania; Rhode Island. Lesquereux, 1884, p. 786, pl. 107: figs. 4, 5.

gracile Lesquereux. Pennsylvanian (Pottsville). 16245. Pittston, Pennsylvania. Lesquereux, 1884, p. 786, pl. 107: fig. 8.

jenneyi White. Pennsylvanian (Cherokee). 6078, 6083–84, 6176. Henry County, Missouri. White, 1899a, p. 214, pl. 59: figs. 1a, 1b; pl. 63: fig. 6.

linearifolium Lesquereux. Pennsylvanian (Allegheny). 16066–68. Cannelton, Pennsylvania. Lesquereux, 1880, p. 452, pl. 69: fig. 39.

mansfieldi Lesquereux. Pennsylvanian (Allegheny). 15918. Cannelton, Pennsylvania. Lesquereux, 1880, p. 449, pl. 69: fig. 34.

minutum Lesquereux. Pennsylvanian ("Anthracite" Series). 16243. Archbald, Pennsylvania. Lesquereux, 1884, p. 787, pl. 107: fig. 9.

missouriense White. Pennsylvanian (Cherokee). 6059, 6062, 6091, 6107, 6235. Henry County, Missouri. White, 1899a, p. 216, pl. 58: fig. 2; pl. 60: fig. 2, 3; pl. 61: fig. 1a; pl. 62: fig. a.

morrisianum Lesquereux. Pennsylvanian (Allegheny). 15916–17. Mazon Creek, Illinois. Lesquereux, 1880, p. 448, pl. 69, figs. 40–41.

sagittatum White. Mississippian (Wedington). 39543–44. Winslow quadrangle, Arkansas. White, 1936b, p. 33, pl. 6: fig. 3; pl. 9: fig. 2.

stantoni Lesquereux. Pennsylvanian ("Anthracite" Series). 16221–23. Wilkes-Barre, Pennsylvania. Lesquereux, 1884, p. 841.

truncatum Lesquereux. Pennsylvanian (Allegheny). 15985, 26051, 41875. Cannelton, Pennsylvania, and Mazon Creek, Illinois. Lesquereux, 1880, p. 458, pl. 69: figs. 9, 10.

tumidum Lesquereux. Pennsylvanian ("Anthracite" Series). 16218. Wilkes-Barre, Pennsylvania. Lesquereux, 1884, p. 788, pl. 107: fig. 12.

Lepidostrobus

butleri Lesquereux. Pennsylvanian (Pottsville). 16175. Pittston, Pennsylvania. Lesquereux, 1884, p. 840.

globosus Dawson. Devonian. 36484. Perry, Maine. Smith and White, 1905, p. 73, pl. 6: fig. 5.

hastatus Lesquereux. Pennsylvanian (Pottsville). 16178. Pittston, Pennsylvania. Lesquereux, 1880, p. 438, pl. 69: fig. 27.

latus Lesquereux. Pennsylvanian ("Anthracite" Series). 16145–46. Olyphant, Pennsylvania. Lesquereux, 1884, p. 841.

missouriensis White. Pennsylvanian (Cherokee). 8796. Henry County, Missouri. White, 1899a, p. 217, pl. 60: fig. 1.

occidentalis White. Mississippian (Wedington). 39545–47. Winslow quadrangle, Arkansas. White, 1936b, p. 33, pl. 5: figs. 1, 3; pl. 8: fig. 20.

peniculus White. Mississippian (Jackfork). 39448–49. Pike County, Arkansas. White, 1936c, p. 57, pl. 13: figs. 1–3.

praelongus Lesquereux. Pennsylvanian. 41140. Pittston, Pennsylvania. Lesquereux, 1880, p. 433.

princeps Lesquereux. Pennsylvanian (Cherokee). 6066, 6071, 6088, 6098. Henry County, Missouri.

White, 1899a, p. 212, pl. 62: fig. *h*; pl. 63: figs. 1, 2; pl. 64: fig. *a*.
salisburyi Lesquereux. Pennsylvanian. 16130, 42298. Coal Creek, West Virginia, and Mercer County, Illinois. Lesquereux, 1880, p. 443, pl. 69: figs. 1, 2.
spectabilis Lesquereux. Pennsylvanian (Allegheny). 16059–60. Cannelton, Pennsylvania. Lesquereux, 1880, p. 435.
truncatus Lesquereux. Pennsylvanian (Allegheny). 16131–32. Cannelton, Pennsylvania. Lesquereux, 1884, p. 784, pl. 108: fig. 1.
variabilis Lindley and Hutton. Pennsylvanian. 16002–03. Pittston, Pennsylvania, and Braceville, Illinois. Lesquereux, 1880, p. 434, pl. 69: fig. 26; 1884, p. 783, pl. 107: fig. 2.
weberensis Read. Pennsylvanian (Weber). 39155. Evans Peak, Colorado. Read, 1934, p. 82, pl. 16: figs. 2, 4.

Triletes of *Lepidostrobus*

missouriensis. Pennsylvanian (Cherokee). 6090. Henry County, Missouri. White, 1899a, p. 217, pl. 62: figs. *d–e*; pl. 63: fig. 3.
 species. Early Permian. 40606. Santa Catharina, Brazil. Read, 1941, p. 85, pl. 8: figs. 4, 5.

Lepidoxyylon

anomalum Lesquereux. Pennsylvanian (Cherokee). 6082, 19156. Henry County, Missouri. Lesquereux, 1880, p. 557, pl. 83: fig. 5; pl. 84: fig. 1.

Leptophloem

rhombicum Dawson. Devonian. 36481–83. Perry, Maine. Smith and White, 1905, p. 69, pl. 6: figs. 2–4.
rhombicum Dawson. Devonian. 41097–98. Perry, Maine. Dawson, 1862, p. 316, pl. 12: fig. 8; pl. 17: fig. 53.

Lescuropteris

moorii (Lesquereux) Schimper. Pennsylvanian (Elmdale). 41762–63. Onaga, Kansas. Read and Mamay, 1964, pl. 11: figs. 1, 2.
 species. Pennsylvanian (Lawrence). 41822. Onaga, Kansas. Cridland et al., 1963, pl. 23: fig. 57.

Lesleya

microphylla Lesquereux. Pennsylvanian (Severy). 11744. Osage City, Kansas. Lesquereux, 1884, p. 831.—Cridland et al., 1963, pl. 23: fig. 55.

Linopteris

gilkersonensis White. Pennsylvanian (Cherokee). 5485, 6100. Henry County, Missouri. White, 1899a, p. 139, pl. 41: fig. 7, 8; pl. 64: fig. *c*.

Litostrobus

iowensis Mamay. Pennsylvanian (Des Moines). 41292. Urbandale, Iowa. Mamay, 1954b, pl. 14: figs. 2–14.

Litostroma

oklahomense Mamay. Pennsylvanian (Boggy). 40932, 40936–39. 4 miles southwest of McAlester, Oklahoma. Mamay, 1959a, pp. 283–292, figs. 3, 4, 26–28.

Lobatannularia

species. Permian (Belle Plains). 41774. Emily Irish grant, Baylor County, Texas. Read and Mamay, 1964, pl. 18: fig. 4.

Lycopodiopsis

derbyi Renault. Early Permian. 31922. São Paulo, Brazil. White, 1908, p. 437, pl. 5: fig. 11.

Lycopodites

arborescens Lesquereux. Pennsylvanian (Pottsville). 15559. Washington County, Arkansas. Lesquereux, 1884, p. 778, pl. 106: fig. 1.

lacoei Lesquereux. Pennsylvanian ("Anthracite" Series). 10219, 16401. Olyphant, Pennsylvania. Lesquereux, 1884, p. 780, pl. 107: fig. 1.

simplex Lesquereux. Pennsylvanian (Pottsville). 15552. Pittston, Pennsylvania. Lesquereux, 1884, p. 779, pl. 106: fig. 2.

stocki Kidston (counterpart). Calciferous sandstone. 15534. Eskdale, Scotland. Kidston, 1884, p. 115, pl. 5: fig. 1.

vanuxemi Dawson. Devonian. 41130. Ithaca, New York. Hall, 1863, p. 115, fig. 7.

Lycopogenia

callicyrta Read. Devonian. 41285. Junction City, Kentucky. Read, 1936, p. 227, figs. 1, 2.

Macrostachya

aperta Lesquereux. Pennsylvanian (Allegheny). 18312. Cannelton, Pennsylvania. Lesquereux, 1884, p. 829, pl. 3: fig. 20.

communis Lesquereux. Pennsylvanian (Allegheny). 17740-42, 17751. Cannelton, Pennsylvania. Lesquereux, 1884, p. 828, pl. 3: figs. 17, 18.

infudibuliformis Schimper. Pennsylvanian (Allegheny). 17729, 17730. Cannelton, Pennsylvania. Lesquereux, 1880, p. 60, pl. 3: fig. 14.

lanceolata Lesquereux. Pennsylvanian (Pottsville). 18314. Pittston, Pennsylvania. Lesquereux, 1884, p. 721.

minor Lesquereux. Pennsylvanian (Pottsville). 18301. Pittston, Pennsylvania. Lesquereux, 1884, p. 829, pl. 3: fig. 19.

Mariopteris

capitata White. Pennsylvanian (McAlester). 6514. McAlester, Oklahoma. White, 1899b, pp. 482-485.

cheilanthoides White. Pennsylvanian (Pottsville). 2661. Gadsden, Alabama. White, 1943, p. 89, pl. 19: figs. 5, 6.

cordata-ovata (Lesquereux) White. Late Pennsylvanian. 41765. Hazleton, Pennsylvania. Read and Mamay, 1964, pl. 12: fig. 4.

decipiens (Lesquereux) White. Early Pennsylvanian. 40860, 40864. Bloomington quadrangle, Indiana. Jackson, 1917, p. 415, pl. 4: fig. 7; pl. 5: fig. 4.

decipiens (Lesquereux) White. Pennsylvanian. 41019-21, 41023-24, 41027-28. Belleville, Missouri. White, 1893a, pp. 47-52, pl. 1: figs. 5-8; pl. 2: figs. 1-3.

eremopteroides White. Pennsylvanian (Pottsville). 40081a-i. Brookside, Pennsylvania. White, 1943, p. 87, pl. 16: figs. 1, 2; pl. 17: figs. 1-9.

eremopteroides White. Pennsylvanian (Pottsville). 40958. Brookside colliery, Pennsylvania. White,

1900, p. 872, pl. 189: fig. 2.—Read and Mamay, 1964, pl. 4: fig. 1.

eremopteroides White. Pennsylvanian (Pottsville). 40959. Brookside, Pennsylvania. White, 1900, p. 872, pl. 189: fig. 1.

inflata White. Pennsylvanian (Pottsville). 40079a-c. Thurmond, West Virginia. White, 1943, p. 88, pl. 18: fig. 4; pl. 19: figs. 1-4.

inflata sewaneensis White. Pennsylvanian (Pottsville). 13661, 40078. Tracy and Rockwood, Tennessee. White, 1943, p. 88, pl. 18: figs. 1-3.

lobata White. Pennsylvanian (Pottsville). 13746, 13748. Warrior Creek, Alabama. White, 1943, p. 87, pl. 15: figs. 1, 2.

muricata Schlotheim. Pennsylvanian (Pottsville). 40843. Bloomington quadrangle, Indiana. Jackson, 1917, p. 415, pl. 2: fig. 2.

occidentalis White. Pennsylvanian (McAlester). 6743, 6745-46, 6749, 6751. McAlester, Oklahoma. White, 1899b, p. 482, pl. 67: figs. 1-4, 6.

occidentalis White. Pennsylvanian (Boggy). 41220. McAlester quadrangle, Oklahoma. Read and Mamay, 1964, pl. 8: fig. 2.

occidentalis villosa White. Pennsylvanian (McAlester). 6748, 6750. Krebs, Oklahoma. White, 1899b, p. 482, pl. 67: figs. 8, 9.

paddocki White. Pennsylvanian (Pottsville). 40080 a-d, 42077. Pocahontas, West Virginia. White, 1943, p. 86, pl. 14: figs. 1-6.

paddocki colliciaris White. Pennsylvanian (Pottsville). 40076a-e. Nuttall, West Virginia. White, 1943, p. 87, pl. 12: figs. 1, 2; pl. 13: figs. 1-9.

phillipsi White. Pennsylvanian (Pottsville). 40084a-d. Pottsville Gap, Pennsylvania. White, 1943, p. 89, pl. 20: figs. 1-3; pl. 22: fig. 1.

pottsvillea White. Pennsylvanian (Pottsville). 40247. Squire Jim, West Virginia. Butts, 1941, pl. 135: fig. 1.

pottsvillea White. Pennsylvanian (Pottsville). 40955-57, 40963. Lincoln mine, Pennsylvania. White, 1900, p. 874, pl. 190: figs. 3-6.

pottsvillea White. Pennsylvanian (Pottsville). 2206, 13656-58, 13711-12, 13717, 13752. Warrior Creek, Alabama, and Cole City, Georgia. White, 1943, p. 86, pl. 8: fig. 1; pl. 9: figs. 1-5; pl. 10: figs. 1-5.

pottsvillea White. Pennsylvanian (Lookout). 13658. Cole City, Georgia. Read and Mamay, 1964, pl. 5: fig. 1.

pottsvillea dilatata White. Pennsylvanian (Pottsville). 2668a-b, 2669. Gadsden, Alabama. White, 1943, p. 86, pl. 11: figs. 2-6.
pottsvillea ovalis White. Pennsylvanian (Pottsville). 40074-75. Squire Jim, Virginia. White, 1943, p. 86, pl. 11: figs. 1, 7, 8; pl. 12: fig. 3.
pygmaea White. Pennsylvanian (Pottsville). 40082a-b, 40086. Pottsville Gap and Tremont, Pennsylvania. White, 1943, p. 89, pl. 21: figs. 1, 2; pl. 22: fig. 3.—Read and Mamay, 1964, pl. 6: fig. 3; pl. 7: fig. 1.
pygmaea White. Pennsylvanian (Pottsville). 40967, 40977-78, 40980. New Lincoln colliery, Pennsylvania. White, 1900, p. 876, pl. 192: figs. 2, 4-6.
pygmaea White. Pennsylvanian (Massillon coal). 41760. Massillon, Ohio. Read and Mamay, 1964, pl. 5: figs. 2, 3.
sphenopteroides (Lesquereux) Zeiller. Pennsylvanian (Cherokee). 5707-10. Henry County, Missouri. White, 1899a, p. 31, pl. 9: figs. 1, 2; pl. 10: figs. 1, 2.
tennesseana White. Pennsylvanian (Pottsville). 13597, 40083, 40085a-b. Cotton Hill and Crow, West Virginia; Warrior, Alabama. White, 1943, p. 89, pl. 20: fig. 4; pl. 21: figs. 3, 4; pl. 22: fig. 2.
 species. Pennsylvanian (Cherokee). 5666, 14438. Henry County, Missouri. White, 1899a, p. 34, pl. 7: fig. 6; pl. 9: fig. 3.

Medullosa

grandis Andrews and Mamay. Pennsylvanian (Des Moines). 40630. 4 miles south of West Mineral, Kansas. Andrews and Mamay, 1953, pp. 191-196, pls. 22, 23.

Megalopteris

dentata Lesquereux. Pennsylvanian. 11448-50. Rushville, Ohio. Lesquereux, 1884, p. 833.
fasciculata Lesquereux. Pennsylvanian (Pottsville). 11704. Port Byron, Illinois. Lesquereux, 1880, p. 150, pl. 24: fig. 2.
marginata Lesquereux. Pennsylvanian (Pottsville). 11700. Port Byron, Illinois. Lesquereux, 1880, p. 152, pl. 24: fig. 4.
serrata Lesquereux. Pennsylvanian (Pottsville). 11463. Rushville, Ohio. Lesquereux, 1884, p. 834.
southwelli Lesquereux. Pennsylvanian (Pottsville). 41171. Port Byron, Illinois. Lesquereux, 1880, p. 148, pl. 24: fig. 1.—Read and Mamay, 1964, pl. 7: fig. 3.

Megaphyton

elongatum Kidston. Late "Coal Measures." 17038. Radstock, Somerset, England. Kidston, 1887, p. 390.
goldenbergi Weiss. Pennsylvanian (Cherokee). 17039. Henry County, Missouri. Lesquereux, 1880, p. 349, pl. 61: fig. 4.
grand'euryi Lesquereux. Pennsylvanian ("Anthracite" Series). 17044. Olyphant, Pennsylvania. Lesquereux, 1880, p. 350.

Mesocalamites

crookensis Mamay and Read. Pennsylvanian (Spotted Ridge). 40708-09. Crook County, Oregon. Mamay and Read, 1956, p. 215, pl. 35: figs. 4, 5.
hesperius (Arnold) Mamay and Read. Pennsylvanian (Spotted Ridge). 40707. Crook County, Oregon. Mamay and Read, 1956, p. 215, pl. 34: fig. 3.
 species. Pennsylvanian (Spotted Ridge). 40705-06. Crook County, Oregon. Mamay and Read, 1956, p. 216, pl. 34: figs. 1, 2.

Microzygia

lacunosa Read. Devonian. 41240. Junction City, Kentucky. Read, 1936, p. 223: fig. 9.

Moellerina

greenei Ulrich. Devonian. 42079. Falls of the Ohio, Louisville, Kentucky. Ulrich, 1886, p. 34, pl. 3: figs. 8, 8a-e.

Monoletes

ovatus Schopf. Pennsylvanian (McLeansboro). 41177-78. Berryville, Illinois. Mamay and Yochelson, 1962, pl. 33: figs. 1, 2.

Monoscalitheca

fasciculata Abbott. Pennsylvanian (Allegheny). 40300-01. Kimberly, Ohio. Abbott, 1961, pp. 981-982, pl. 115: figs. 1, 2.

Neuropteridium?

species. Permian (Hermit). 38045. Grand Canyon, Arizona. White, 1929, p. 91, pl. 16: fig. 1.

Neuropterus

agassizi Lesquereux. Pennsylvanian (counterpart). Pennsylvanian. 10050. Rhode Island. Lesquereux, 1880, p. 117, pl. 17: fig. 1.

aspera Lesquereux. Pennsylvanian. 10565, 10704, 10706–07. Cannelton and Pittston, Pennsylvania. Lesquereux, 1884, p. 736, pl. 96: figs. 4–7.

auriculata Brongniart. Pennsylvanian (Allegheny). 11352. Cannelton, Pennsylvania. Lesquereux, 1880, p. 85, pl. 6: fig. 11.

biformis Lesquereux. Pennsylvanian (Vandever). 41988. Durham, Georgia. Allen and Lester, 1954, pl. 35: fig. 4.

blissi Lesquereux. Pennsylvanian (Allegheny). 10065. Mazon Creek, Illinois. Lesquereux, 1884, p. 737, pl. 95: fig. 1.

capitata Lesquereux. Pennsylvanian (Allegheny). 11355. Cannelton, Pennsylvania. Lesquereux, 1880, p. 103, pl. 23: fig. 2.

capitata Lesquereux. Pennsylvanian (Allegheny). 11344. Cannelton, Pennsylvania. Lesquereux, 1880, p. 103, pl. 23: fig. 3.

carceraria White. Pennsylvanian (Cherokee). 10785. Lansing, Kansas. White, 1903, p. 99.—Cridland et al., 1963, pl. 20: fig. 33.

carceraria White. Pennsylvanian (Allegheny). 10791, 14831. Mazon Creek, Illinois, and Cannelton, Pennsylvania. White, 1903, p. 99.

carri Lesquereux. Pennsylvanian. 11385–87. Kingston, Pennsylvania. Lesquereux, 1884, p. 731, pl. 94: figs. 5–7.

caudata White. Pennsylvanian. 41030–38. Belleville, Missouri. White, 1893a, pp. 87–91, pl. 4: figs. 1–9.

crenulata Brongniart. Pennsylvanian. 10037. Tremont, Pennsylvania. Lesquereux, 1880, p. 116, pl. 16: fig. 11.

decipiens Lesquereux. Pennsylvanian (Allegheny). 10621–24. Mazon Creek, Illinois. Lesquereux, 1884, p. 733, pl. 94: figs. 1, 2.

dilatata (Lindley and Hutton) Lesquereux. Pennsylvanian (Cherokee). 5658, 5672, 6038. Henry County, Missouri. White, 1899a, p. 137, pl. 41: fig. 1; pl. 42: fig. 1; pl. 43: fig. 1; pl. 44: fig. 2.

dluhoschi Stur. Pennsylvanian (Weber). 39161. Evans Peak, Colorado. Read, 1934, p. 83, pl. 17: fig. 5.

elrodi Lesquereux. Pennsylvanian. 11839. Alabama. Lesquereux, 1880, p. 107, pl. 13: fig. 4.

elrodi Lesquereux. Pennsylvanian (Pottsville). 11840–41. Tracy, Tennessee, and Dade County, Georgia. Lesquereux, 1884, p. 735, pl. 96: figs. 1, 2.

elrodi Lesquereux. Mississippian (Stanley). 39406–07. De Queen quadrangle, Arkansas. White, 1936c, p. 61, pl. 10: figs. 18, 19; pl. 11: fig. 8.

elrodi Lesquereux. Pennsylvanian (Pottsville). 41232, 41872–73. Gadsden, Alabama. Lesquereux, 1888, p. 86, pl. 29: figs. 1–3.

elrodi Lesquereux. Pennsylvanian (Pottsville). 40862. Bloomington quadrangle, Indiana. Jackson, 1917, p. 417, pl. 5: fig. 2.

flexuosa Sternberg. Pennsylvanian. 41050–52. Belleville, Missouri. White, 1893a, pp. 91–93, pl. 5: figs. 1–4.

flexuosa Sternberg. Pennsylvanian (Allegheny). 40311. Mazon Creek, Illinois. Read and Mamay, 1964, pl. 9: fig. 3.

griffithi Lesquereux. Pennsylvanian ("Anthracite" Series). 10807–12. Port Griffith, Pennsylvania. Lesquereux, 1884, p. 737, pl. 95: figs. 3–8.

griffithi occidentalis White. Pennsylvanian (McAlester). 6508–09. McAlester, Oklahoma. White, 1899b, p. 505.

harrisi White. Pennsylvanian. 12667–69. Russellville, Arkansas. White, 1899b, pp. 506–507, pl. 68: figs. 6–9.

hastata White. Pennsylvanian (Cherokee). 12072–74, 12076. Lansing and Lawrence, Kansas. White, 1903, p. 97.

hastata White. Pennsylvanian (Lawrence). 12071. Lansing, Kansas. Cridland et al., 1963, pl. 19: figs. 25, 26.

heterophylla Brongniart. Pennsylvanian (Weber). 39160. Evans Peak, Colorado. Read, 1934, p. 84, pl. 16: fig. 7.

jenneyi White. Pennsylvanian. 41022, 41025–26, 41029, 41039–49, 41061. Belleville, Missouri. White, 1893a, pp. 82–84, pl. 1: figs. 7a–b; pl. 2: figs. 7–12; pl. 3: figs. 1–3, 5–10.

lindahli White. Pennsylvanian. 8636, 11621–24. Kansas City, Kansas. White, 1903, p. 96.

lindahli White. Pennsylvanian (Dennis). 8636. Kansas City, Kansas. Cridland et al., 1963, pl. 19: fig. 24.

lindahli White. Pennsylvanian (Swope). 11622. Kansas City, Missouri. Read and Mamay, 1964, pl. 12: fig. 5.

lunata White. Pennsylvanian (Pottsville). 40961, 40964, 40971, 40975, 40986. Lincoln colliery near

Tremont, Pennsylvania. White, 1900, p. 895, pl. 193: figs. 3-7.

missouriensis Lesquereux. Pennsylvanian (Cherokee). 30861. Henry County, Missouri. Lesquereux, 1880, p. 104, pl. 7: fig. 6.

missouriensis Lesquereux. Pennsylvanian (Cherokee). 5472, 5630-32. Henry County, Missouri. White, 1899a, p. 130, pl. 41: figs. 4, 5; pl. 42: fig. 4; pl. 45: fig. 3.

oblongifolia Lesquereux. Pennsylvanian (Allegheny). 10070-71. Cannelton, Pennsylvania. Lesquereux, 1884, p. 732, pl. 94: fig. 3; pl. 95: fig. 2.

ovata Hofmann. Pennsylvanian (Cabaniss). 10744. Lansing, Kansas. Cridland et al., 1963, pl. 22: fig. 53.

ovata Hofmann. Pennsylvanian (Cherokee). 8901. Henry County, Missouri. Read and Mamay, 1964, pl. 9: fig. 2.

pocahontas White. Pennsylvanian (Pottsville). 40246. Sewell, West Virginia. Butts, 1941, pl. 135: figs. 6, 8.

pocahontas White. Pennsylvanian (Pottsville). 40745, 40751. West Virginia. White, 1900, p. 888, pl. 189: fig. 4; pl. 191: fig. 5.

pocahontas White. Pennsylvanian (Vandever). 41983. Durham, Georgia. Allen and Lester, 1954, pl. 34: figs. 5, 6.

pocahontas White. Pennsylvanian (Pocahontas coal group). 41213. Angle mine, West Virginia. Read and Mamay, 1964, pl. 4: fig. 2.

pocahontas inaequalis White. Pennsylvanian (Pottsville). 40744, 40747-50, 40968, 40985. Pottsville Gap, Rausch Gap, Kalmia colliery, and Tremont, Pennsylvania. White, 1900, p. 890, pl. 188: fig. 5; pl. 190: figs. 7(?), 8; pl. 191: figs. 1-4.

pocahontas pentias White. Pennsylvanian (Pottsville). 40741-43, 40746. Brookside, Tremont, and Kalmia colliery, Pennsylvania. White, 1900, p. 892, pl. 188: figs. 2-4; pl. 189: fig. 5.

rarinervis Bunbury. Pennsylvanian. 41054. Belleville, Missouri. White, 1893a, pp. 85-87, pl. 5: fig. 7.

rarinervis Bunbury. Pennsylvanian (Cherokee). 10873. Lansing, Kansas. Read and Mamay, 1964, pl. 8: fig. 3.

rogersi Lesquereux. Pennsylvanian (Tecumseh). 7737, 8142. 20 miles southeast of Lawrence, Kansas; Twin Mounds, Kansas. Cridland et al., 1963, pl. 23: figs. 58, 59.

scheuchzeri Hofmann. Pennsylvanian (Cherokee). 5633, 6101. Henry County, Missouri. White, 1899a, p. 132, pl. 42: fig. 3; pl. 64: fig. d.

scheuchzeri Hofmann. Pennsylvanian (Cabaniss). 11667, 11669. Lansing, Kansas. Cridland et al. 1963, pl. 23: figs. 54, 56.

smithi Lesquereux. Pennsylvanian (Pottsville). 11156. Dade County, Georgia. Lesquereux, 1884, p. 734, pl. 96: fig. 3.

smithi Lesquereux. Pennsylvanian (Pottsville). 41233. Gadsden, Alabama. Lesquereux, 1888, p. 86, pl. 29: fig. 4.

tennesseeana Lesquereux. Pennsylvanian. 11790. Tracy, Tennessee. Read and Mamay, 1964, pl. 6: fig. 2.

tenuifolia (Schlotheim) Sternberg. Pennsylvanian (Pottsville). 41219. Sandy Ridge, Center County, Pennsylvania. Read and Mamay, 1964, pl. 7: fig. 4.

trichomanoides (Brongniart) Lesquereux. Pennsylvanian (Allegheny). 10073. Cannelton, Pennsylvania. Lesquereux, 1880, p. 79, pl. 4: fig. 4.

cf. *trichomanoides* (Brongniart) Lesquereux. Pennsylvanian. 41053. Belleville, Missouri. White, 1893a, p. 95, pl. 4: fig. 10.

species. Mississippian (Wedington). 39484-85. Winslow quadrangle, Arkansas. White, 1936b, p. 20, pl. 4: figs. 26-28.

species. Pennsylvanian (Pottsville). 40850, 40854, 40861, 40863, 40894, 40903. Bloomington quadrangle and Clay City quadrangle, Indiana. Jackson, 1917, p. 418, pl. 3: fig. 4; pl. 4: fig. 1; pl. 5: figs. 1, 3; pl. 9: fig. 4; pl. 10: fig. 1.

species. Pennsylvanian. 41055. Belleville, Missouri. White, 1893a, p. 98, pl. 5: fig. 6.

Noeggerathia

spatulata Dana. Permian. 41295. New South Wales, Australia. Dana, 1849, p. 715, pl. 12: fig. 9.

Noeggerathiopsis

hislopi (Bunbury) Feistmantel. Early Permian. 31994-96, 32009. Santa Catharina, Brazil. White, 1908, p. 549, pl. 9: figs. 4-7.

Odontopteris

abbreviata Lesquereux. Pennsylvanian. 14827. Old Forge, Pennsylvania. Lesquereux, 1880, p. 138, pl. 21: fig. 7.

aequalis Lesquereux. Pennsylvanian (Allegheny). 10323–24. Mazon Creek, Illinois. Lesquereux, 1880, p. 135, pl. 21: fig. 8; 1884, p. 743, pl. 97: fig. 6.

affinis Lesquereux. Pennsylvanian (Allegheny). 10290–91. Mazon Creek, Illinois. Lesquereux, 1884, p. 742, pl. 97: fig. 4.

bradleyi Lesquereux. Pennsylvanian (Cherokee). 5623. Henry County, Missouri. White, 1899a, p. 125, pl. 42: fig. 2.

cornuta Lesquereux. Pennsylvanian (Allegheny). 10345–46, 10348. Cannelton, Pennsylvania. Lesquereux, 1880, p. 128, pl. 22: figs. 7–9.

deformata Lesquereux. Pennsylvanian. 11287. Rhode Island. Lesquereux, 1884, p. 743, pl. 97: fig. 5.

cf. *O. fischeri*, Brongniart. Permian (Belle Plains). 41770, 41846. Castle Hollow near Fulda, Texas. Read and Mamay, 1964, pl. 17: figs. 3, 4.

monstruosa Lesquereux. Pennsylvanian (Allegheny). 10358, 14831. Cannelton, Pennsylvania. Lesquereux, 1884, p. 741, pl. 97: figs. 2–3.

neuropteroidea Roemer. Pennsylvanian. 11279. Rhode Island. Lesquereux, 1884, p. 740, pl. 97: fig. 8.

newberryi Lesquereux. Pennsylvanian (Pottsville). 40841–42. Bloomington quadrangle, Indiana. Jackson, 1917, p. 419, pl. 1: fig. 8; pl. 2: fig. 1a.

osmundaeformis (Schlotheim) Zeiller. Pennsylvanian (Scranton). 10313. Osage City, Kansas. Cridland et al., 1963, pl. 22: fig. 52.

pachyderma Fontaine and White. Pennsylvanian, 42304. Cassville, West Virginia. Read and Mamay, 1964, pl. 12: fig. 3.

papilionacea White. Pennsylvanian (Cherokee). 12086. Lansing, Kansas. White, 1903, p. 95.—Cridland et al., 1963, pl. 22: fig. 51.

patens Lesquereux. Pennsylvanian. 11274–76. Rhode Island. Lesquereux, 1884, p. 740, pl. 97: fig. 7.

reichiana Gutbier. Pennsylvanian (Chanute). 11265. Thayer, Kansas. Cridland et al., 1963, pl. 22: fig. 48.

reichiana Gutbier. Late Pennsylvanian. 11267. Hazelton, Pennsylvania. Read and Mamay, 1964, pl. 12: fig. 2.

sphenopteroidea Lesquereux. Pennsylvanian (Cherokee). 13531–32. Clinton, Missouri, and Mazon Creek, Illinois. Lesquereux, 1880, p. 139, pl. 21: fig. 3, 4.

subcuneata Lesquereux. Pennsylvanian (Carbondale). 35317. Spring Creek, Vermillion County, Indiana. Lesquereux, 1884, p. 872, pl. 22: fig. 4.

Oligocarpia

missouriensis White. Pennsylvanian (Cherokee). 5694–96, 14467–68. Henry County, Missouri. White, 1899a, p. 66, pl. 20: fig. 1; pl. 21: figs. 1–4.

Omphalophloios

cyclostigma (Lesquereux) White. Pennsylvanian (Cherokee). 6024–26, 6028–30, 8797, 15502. Henry County, Missouri. White, 1898, pl. 20; pl. 21: figs. 1, 3–5; pl. 22: figs. 1, 3; 1899a, p. 218, pl. 65; pl. 66: figs. 1–3, 5; pl. 67: figs. 1, 2; pl. 68: figs. 1, 2.

Otidophyton

hymenophylloides White. Devonian. 36450. Perry, Maine. Smith and White, 1905, p. 47, pl. 2: fig. 3.

Ottokaria

ovalis White. Early Permian. 31980–81. Rio Grande do Sul, Brazil. White, 1908, p. 532, pl. 7: fig. 7.

Ovopterus

communis (Lesquereux) Pontonié. Pennsylvanian (Morrow). 41218. Washington County, Arkansas. Read and Mamay, 1964, pl. 6: fig. 1.

Padgettia

readi Mamay. Permian (Moran). 41165a–b, 42179–180. 2 miles northwest of Padgett, Texas, Mamay, 1960, pp. 53–57: figs. 1–4.

Pagiophyllum

dubium White non Fontaine. Permian (Hermit). 38062. Grand Canyon, Arizona. White, 1929, p. 111, pl. 47: figs. 1, 3, 4?, 5.

Palaeophycus

duplex (Hall) Whitfield. Late Cambrian?. 41129. Pictured Rocks, Lake Superior. Chamberlin, 1883, p. 126.

fluctans Ruedemann. Ordovician. 41174. Below Salmon River falls, New York. Ruedemann, 1925, p. 10, fig. 1.

gracilis Lesquereux. Carboniferous. 25023. Vigo County, Indiana. Lesquereux, 1875, p. 137, pl. 1: fig. 5; 1880, p. 11, pl. B: fig. 10.

milleri Lesquereux. Carboniferous. 25020-22. Vigo County, Indiana. Lesquereux, 1875, p. 136, pl. 1: figs. 1-3; 1880, p. 10, pl. A: fig. 8.

occidentalis Whitfield. Cambrian (Potsdam). 42171. Black Hills, South Dakota. Whitfield, 1880, p. 332, pl. 1: fig. 3.

simplex Hall. Ordovician. 41100-01. Middleville, New York. Hall, 1847, p. 63, pl. 22: fig. 1a-b.

striatus Hall. Late Silurian. 41103-05, 41108, 41111. Clinton, New York. Hall, 1852, p. 22, pl. 10: figs. 1, 2.

tortuosus Hall. Silurian. 41102, 41106-07. Medina, New York. Hall, 1852, p. 6, pl. 3: figs. 2-2b.

species. Ordovician. 41099. Middleville, New York. Hall, 1847, pl. 21: fig. 3.

species. Late Silurian. 41109-10. New Hartford, New York. Hall, 1852, p. 22, pl. 8: fig. 3; pl. 10: fig. 3.

Palaeostachya

andrewsi Baxter. Pennsylvanian (Des Moines). 41293. What Cheer, Iowa. Baxter, 1955, unfigured section of the holotype.

species. Devonian. 36466. Perry, Maine. Smith and White, 1905, p. 64, pl. 4: fig. 4.

Palaeotaxites

praecursor White. Permian (Hermit). 38058. Grand Canyon, Arizona. White, 1929, p. 107, pl. 45: fig. 4; pl. 48: fig. 3; pl. 49: figs. 1, 3; pl. 50: figs. 1, 2, 6.

Palmatopteris

subgeniculata (Stur) Renier. Mississippian (Stanley). 39401-03. De Queen quadrangle, Arkansas. White, 1936c, p. 62, pl. 11: figs. 13, 20, 29, 30.

Parasporites

cf. *P. maccabei* Schopf. Pennsylvanian (McLeansboro). 41199-41200. Berryville, Illinois. Mamay and Yochelson, 1962, pl. 33: figs. 23, 24.

Pecopteris

abbreviata? Brongniart. Pennsylvanian (Allegheny). 14237, 14240, 14245. Mazon Creek, Illinois. Lesquereux, 1880, p. 248, pl. 46: figs. 4-6.

cf. *abbreviata* Brongniart. Pennsylvanian (Pottsville). 40900. Clay City quadrangle, Indiana. Jackson, 1917, p. 417, pl. 9: fig. 13.

arborescens (Schlotheim) Brongniart. Pennsylvanian (middle Allegheny). 12637. Olyphant, Pennsylvania. Read and Mamay, 1964, pl. 9: fig. 1.

cf. *arborescens* Brongniart. Pennsylvanian (Cherokee). 14873. Henry County, Missouri. White, 1899a, p. 78, pl. 44: fig. 3.

cf. *P. arborescens* Brongniart. Pennsylvanian (Cherokee). 5595-56, 5686. Henry County, Missouri. White, 1899a, p. 78, pl. 33: fig. 7; pl. 36: fig. 3; pl. 47: fig. 6.

cambuhyensis Read. Permian (Tubarao Series). 40607. Parana, Brazil. Read, 1941, p. 75, pl. 3: figs. 8, 9.

clintoni Lesquereux. Pennsylvanian (Cherokee). 13172-74, 30857. Henry County, Missouri. Lesquereux, 1880, p. 251, pl. 42: figs. 1, 3, 5.

clintoni Lesquereux. Pennsylvanian (Cherokee). 5605-06. Henry County, Missouri. White, 1899a, p. 94, pl. 34: fig. 1; pl. 35: fig. 4.

dentata Brongniart. Pennsylvania (Cherokee). 5621, 5641-43, 5655, 5739. Henry County, Missouri. White, 1899a, p. 75, pl. 24: figs. 1, 2; pl. 25: fig. 1; pl. 26: figs. 2-4; pl. 27.

erosa Gutbier. Pennsylvanian (Cherokee). 30856. Henry County, Missouri. Lesquereux, 1880, p. 255, pl. 44: fig. 1.

fontainei Lesquereux. Pennsylvanian (Allegheny). 14248-49. Mazon Creek, Illinois. Lesley, 1889, p. 606.

georgiana Lesquereux. Pennsylvanian (Pottsville). 12420-22. Dade County, Georgia. Lesquereux, 1884, p. 759, pl. 98: fig. 6.

halli (Lesquereux) Lesquereux. Pennsylvanian (Allegheny). 42328. Mazon Creek, Illinois. Lesquereux, 1880, p. 258.

hemiteliooides Brongniart. Pennsylvanian (Cherokee). 5594. Henry County, Missouri. White, 1899a, p. 79, pl. 35: fig. 5.

jenneyi White. Pennsylvanian (Cherokee). 5598-99. Henry County, Missouri. White, 1899a, p. 80, pl. 36: figs. 1, 2.

lanceolata Lesquereux (counterpart). Pennsylvanian (Allegheny). 12542. Mazon Creek, Illinois. Lesquereux, 1880, p. 227, pl. 39: fig. 9.

lesquereuxi White. Pennsylvanian. 41012. Belleville, Missouri. White, 1893a, pp. 65–67, pl. 2: fig. 4.

lyratifolia (Goeppert) Lesquereux. Pennsylvanian (Allegheny). 13382. Mazon Creek, Illinois. Lesquereux, 1880, p. 259, pl. 48: fig. 4.

miltoni Brongniart. Pennsylvanian (Allegheny). 12847. Shamokin, Pennsylvania. Read and Mamay, 1964, pl. 10: fig. 1.

obsoleta Lesquereux. Pennsylvanian (Allegheny). 13377–79. Cannelton, Pennsylvania. Lesquereux, 1884, p. 758, pl. 111: fig. 29.

oregonensis Arnold. Pennsylvanian (Spotted Ridge). 40719–25. Crook County, Oregon. Mamay and Read, 1956, p. 219, pl. 36: figs. 1–7.

ornata Lesquereux. Pennsylvanian (Allegheny). 13385–88. Mazon Creek, Illinois. Lesquereux, 1884, p. 760, pl. 111: figs. 30, 30a.

paranaensis Read. Permian (Tubarao Series). 40608–09, 40620–22. Parana, Brazil. Read, 1941, p. 75, pl. 2: figs. 1–5; pl. 3: figs. 2, 3.

pedrasica Read. Permian (Tubarao Series). 40610–12. Parana, Brazil. Read, 1941, p. 73, pl. 2: figs. 6–9.

pennaeformis Brongniart. Pennsylvanian (Cherokee). 12772. Henry County, Missouri. Lesquereux, 1880, p. 239, pl. 45: fig. 1.

plumosa Artis. Pennsylvanian (Pottsville). 40856, 40858–59. Bloomington quadrangle, Indiana. Jackson, 1917, p. 416, pl. 4: figs. 3, 5, 6.

pseudovestita White. Pennsylvanian (Cherokee). 5644–45, 5648, 5725, 5809, 13097, 13174, 13179, 41056. Henry County, Missouri. White, 1899a, p. 85, pl. 28: figs. 1–2a; pl. 29; pl. 30: fig. 1; pl. 31: figs. 1–3; pl. 32: figs. 1, 2.

quadratifolia Lesquereux. Pennsylvanian (Allegheny). 12702. Cannelton, Pennsylvania. Lesquereux, 1884, p. 756, pl. 100: fig. 1.

resupinata Lesquereux. Pennsylvanian (Allegheny). 14870–71. Mazon Creek, Illinois. Lesley, 1889, p. 608.

richardsoni White. Pennsylvanian (McAlester). 6423, 6426–27. McAlester, Oklahoma. White, 1899b, p. 492, pl. 68: figs. 2–4.

robusta Lesquereux. Pennsylvanian. 12523–25. Port Griffith, Pennsylvania. Lesquereux, 1880, p. 229, pl. 39: figs. 7, 8.

serpillifolia Lesquereux. Pennsylvanian (Allegheny). 13929–31. Mazon Creek, Illinois. Lesquereux, 1880, p. 237, pl. 46: figs. 1–3.

serrulata Hartt. Pennsylvanian. 13864, 13867–68. Washington County, Arkansas, and Tracy, Tennessee. Lesquereux, 1884, p. 757, pl. 101: figs. 4, 6, 8.

squamosa Lesquereux. Pennsylvanian (Cabaniss). 12700. Lansing, Kansas. Cridland et al., 1963, pl. 22: fig. 49.

vestita Lesquereux. Pennsylvanian (Cherokee). 13127, 13160. Henry County, Missouri. Lesquereux, 1880, p. 252, pl. 43: figs. 1, 3.

vestita Lesquereux. Pennsylvanian (Cherokee). 5646–47, 5683–84, 5808, 6087. Henry County, Missouri. White, 1899a, p. 91, pl. 26: fig. 1; pl. 33: figs. 2–5; pl. 59: fig. e.

vestita Lesquereux. Pennsylvanian (Cherokee). 5745. Henry County, Missouri. Read and Mamay, 1964, pl. 8: fig. 1.

vestita minor White. Pennsylvanian (McAlester). 6698, 6702. Krebs, Oklahoma. White, 1899b, p. 495.

species. Pennsylvanian. 40877, 40892, 40895, 40904. Clay City quadrangle, Indiana. Jackson, 1917, p. 417, pl. 6: fig. 13; pl. 9: figs. 1, 5; pl. 10: fig. 2.

species. Pennsylvanian. 41981. Durham, Georgia. Allen and Lester, 1954, pl. 35: fig. 2.

Phyllotheca

australis Brongniart. Permian (Tubarao Series). 40615. Parana, Brazil. Read, 1941, p. 89, pl. 6: fig. 4.

griesbachi Zeiller. Early Permian. 31915–16. Santa Catharina, Brazil. White, 1908, p. 423, pl. 5: figs. 9, 10.

muelleriana White. Early Permian. 31917. Santa Catharina, Brazil. White, 1908, p. 427, pl. 5: fig. 8.

paulinensis Mamay and Read. Pennsylvanian (Spotted Ridge). 40710–18. Crook County, Oregon. Mamay and Read, 1956, p. 216, pl. 34: figs. 6–8; pl. 35: figs. 1–6.

species. Permian (Tubarao Series). 40613–14. Parana, Brazil. Read, 1941, p. 91, pl. 3: figs. 5, 6.

species. Early Permian. 31918–20. Santa Catharina, Brazil. White, 1908, p. 429, pl. 5: figs. 3–5.

Physophycus

bilobatus Lesquereux. Late Devonian. 7154. Near Cleveland, Ohio. Lesquereux, 1890, pp. 9–11, pl. 1: figs. 4–8.

Phytopsis

cellulosa Hall. Middle Ordovician. 41121. Water- town, New York. Hall, 1847, p. 39, pl. 9: fig. 1d.
tuberosum Hall. Early Silurian. 41084. Near Amster- dam, New York. Hall, 1847, p. 38, pl. 8: fig. 1.

Pietzschia

polyupsilon Read and Campbell. Devonian. 41267. Holy Cross, Kentucky. Read and Campbell, 1939, p. 444, pl. 2: fig. 2.

Plicorachis

danvillensis Read and Campbell. Devonian. 41254. Junction City, Kentucky. Read and Campbell, 1939, p. 447, pl. 3: fig. 3.

Plinthiotheca

angularis (Lesquereux) White. Pennsylvanian (“Anthracite” Series). 25255–56. Port Griffith, Pennsylvania. White, 1903, p. 101.

Plumalina

plumaria Hall. Devonian. 41130. Ithaca, New York. Hall, 1843, p. 273, illus. 125.

Polysporia

mirabilis Newberry. Pennsylvanian (Allegheny). 15985a, 16132a–b, 26051a–b, 40925–26. Mazon Creek, Illinois; Cannelton, Pennsylvania; Talmadge, Ohio. Chaloner, 1958, pp. 199–209, pl. 31: figs. 1, 2, 4, 5; pl. 32: figs. 1, 3, 8.

Polyxylon

elegans Read and Campbell. Devonian. 41241. New Albany, Indiana. Read and Campbell, 1939, p. 442, pl. 2: figs. 1, 5.

Prosseria

grandis Read. Devonian (late Genesee). 40631. Near Pen Yan, Yates County, New York. Read, 1953, pp. 13–16: figs. 1, 2.

Protocalamites

dorfi Read and Campbell. Devonian. 41277. New Albany, Indiana. Read and Campbell, 1939, p. 444, pl. 4: figs. 3, 4.

Protolepidodendron

microphyllum Read and Campbell. Devonian. 41276. New Albany, Indiana. Read and Campbell, 1939, p. 443, pl. 3: figs. 1, 2.

Prototaxites

ortoni Read and Campbell. Devonian. 41275. Roaring Fork Valley, Kentucky. Read and Campbell, 1939, p. 442, pl. 5: fig. 4.

Pseudobornia

ursina Nathorst. Devonian. 41850–53. Alaska. Mamay, 1962, pp. 19–22, pl. 1: figs. 2–7.

Pseudopeccopteris

anceps Lesquereux. Pennsylvanian (Allegheny). 13401. Cannelton, Pennsylvania. Lesquereux, 1880, p. 207, pl. 38: fig. 3.

decipiens Lesquereux. Pennsylvanian (Pottsville). 15008, 41166. Helena, Alabama. Lesquereux, 1880, p. 214, pl. 52: figs. 9, 10.

dimorpha Lesquereux. Pennsylvanian (“Anthracite” Series). 13565–66. Plymouth, Pennsylvania. Lesquereux, 1884, p. 750, pl. 98: fig. 4.

cf. *dimorpha* Lesquereux. Pennsylvanian (Pottsville). 40845. Bloomington quadrangle, Indiana. Jackson, 1917, p. 416, pl. 2: fig. 5.

hispida Lesquereux. Pennsylvanian (Allegheny). 13737. Cannelton, Pennsylvania. Lesquereux, 1884, p. 755, pl. 98: fig. 3.

irregularis (Sternberg) Lesquereux. Pennsylvanian (Cherokee). 13639. Henry County, Missouri. Lesquereux, 1880, p. 211, pl. 52: figs. 1, 2; 1884, p. 754, pl. 98: fig. 2.

macilenta (Lindley and Hutton) Lesquereux. Pennsylvanian (Allegheny). 14807. Cannelton, Pennsylvania. Lesquereux, 1880, p. 754, pl. 98: fig. 2.

macilenta (Lindley and Hutton) Lesquereux. Pennsylvanian (McAlester). 6433-34. McAlester, Oklahoma. White, 1899b, p. 472, pl. 67: figs. 10, 11.

cf. *macilenta* Lindley and Hutton. Pennsylvanian (Pottsville). 40842, 40844. Bloomington quadrangle, Indiana. Jackson, 1917, p. 416, pl. 2: figs. 1b, 4.

mazoniana Lesquereux. Pennsylvanian (Allegheny). 13902. Mazon Creek, Illinois Lesquereux, 1880, p. 190, pl. 32: fig. 1.

nummularia Gubtier. Pennsylvanian (Cherokee). 14886, 14891. Henry County, Missouri. Lesquereux, 1884, p. 752, pl. 103: figs. 1, 2.

obtusiloba (Brongniart) Lesquereux. Pennsylvanian (Cherokee). 5627, 5635, 5717-18. Henry County, Missouri. White, 1899a, p. 24, pl. 7: figs. 1-3; pl. 8: fig. 1.

obtusiloba (Brongniart) Lesquereux. Pennsylvanian (Pottsville). 40896. Clay City quadrangle, Indiana. Jackson, 1917, p. 416, pl. 9: fig. 7.

pluckneti (Schlotheim) Lesquereux. Pennsylvanian (Allegheny). 13547. Cannelton, Pennsylvania. Lesquereux, 1880, p. 199, pl. 35: fig. 7.

sillimanni (Brongniart) Lesquereux. Pennsylvanian (Allegheny). 13508. Cannelton, Pennsylvania. Lesquereux, 1880, p. 206, pl. 37: fig. 3.

speciosa Lesquereux. Pennsylvanian (Pottsville). 41170. Helena, Alabama. Lesquereux, 1880, p. 216, pl. 51: fig. 1.

species. Pennsylvanian (Cherokee). 5618, 5667. Henry County, Missouri. White, 1899a, p. 29, pl. 7: figs. 4, 5.

Psilophyton

alcicorne White. Devonian. 36474-75. Perry, Maine. Smith and White, 1905, p. 64, pl. 5: figs. 1, 2.

grandis Penhallow. Devonian (Hamilton). 5402-03, 5408. West Hurley, New York. Penhallow, 1893, p. 111, pl. 12: fig. 12a; pl. 13: fig. 12b; pl. 14: fig. 12c.

cf. *P. princeps* Dawson. Devonian. 36475-80, 36485-86. Perry, Maine. Smith and White, 1905, p. 58, pl. 5: figs. 3-7; pl. 6: figs. 7, 8.

Psygmorphylum?

species. Permian (Hermit). 38050. Grand Canyon, Arizona. White, 1929, p. 95, pl. 44: fig. 7.

Ptilophyton

lineare (Lesquereux) Dawson. Mississippian. 19281-82. Rushville, Ohio. Dawson, 1882, p. 123, fig. V (2).

Rachiopteris

squamosa Lesquereux. Pennsylvanian (Allegheny). 19608-10. Cannelton, Pennsylvania. Lesquereux, 1884, p. 838.

Reimanniopsis

indianensis (Read and Campbell) Hoskins and Cross. Early Mississippian. 41239. New Albany, Indiana. Hoskins and Cross, 1951, p. 609: fig. 2.

Reinschia

australis brasiliensis White. Early Permian. 31909. Bahia, Brazil. White, 1908, p. 407, pl. 11: figs. 11, 12.

Rhabdocarpos

abnormalis Lesquereux. Pennsylvanian (Allegheny). 26370. Cannelton, Pennsylvania. Lesquereux, 1884, p. 818, pl. 110: figs. 48, 49.

amygdalaeformis Goeppert and Berger. Pennsylvanian (Pottsville). 26630. Pittston, Pennsylvania. Lesquereux, 1880, p. 581, pl. 85: fig. 27.

apiculatus Lesquereux. Pennsylvanian ("Anthracite" Series). 26756. Wilkes-Barre, Pennsylvania. Lesquereux, 1884, p. 819, pl. 110: fig. 50.

arcuatus Lesquereux. Pennsylvanian (Allegheny). 26368. Cannelton, Pennsylvania. Lesquereux, 1880, p. 583.

clavatus (Sternberg) Geinitz. Pennsylvanian. 26268, 41069. Mazon Creek, Illinois, and Helena, Alabama. Lesquereux, 1870, p. 461, pl. 31: fig. 11; 1880, p. 581, pl. 85: figs. 14, 20.

coronatus White. Pennsylvanian (LeRoy). 26568. Ottawa, Kansas. White, 1903, p. 109.

costatus White. Mississippian (Jackfork). 39416-17. Tuskahoma quadrangle, Oklahoma. White, 1936c, p. 65, pl. 12: figs. 9, 10.

inflatus Lesquereux. Pennsylvanian (Allegheny). 26116-17. Cannelton, Pennsylvania. Lesquereux, 1884, p. 815, pl. 110: fig. 36.

insignis Lesquereux. Pennsylvanian. 41068. Pittston, Pennsylvania. Lesquereux, 1880, p. 575, pl. 85: fig. 26.

jacksonianum Lesquereux. Pennsylvanian. 26177-78. Dolomite, Alabama. Lesley, 1889, p. 867.

late-costatus Lesquereux. Pennsylvanian (Pottsville). 25830-32. Pittston, Pennsylvania. Lesquereux, 1884, p. 815, pl. 110: figs. 34, 35.

mamillatus Lesquereux. Pennsylvanian. 26762-65. Stark County, Illinois. Lesquereux, 1884, p. 815, pl. 110: figs. 39-42.

mansfieldi Lesquereux. Pennsylvanian (Allegheny). 25977. Cannelton, Pennsylvania. Lesquereux, 1880, p. 537, pl. 85: fig. 21.

multistriatus Presl. Pennsylvanian. 26122. Rock Island, Illinois. Lesquereux, 1880, p. 578, pl. 85: fig. 23.

pachytesta Lesquereux. Pennsylvanian (Allegheny). 26796-97. Mazon Creek, Illinois. Lesquereux, 1884, p. 816, pl. 110: fig. 37.

russelli Lesquereux. Pennsylvanian. 41234. Gadsden, Alabama. Lesquereux, 1888, p. 86, pl. 29: fig. 10.

secalicus White. Mississippian (Stanley). 39413-14. De Queen quadrangle, Arkansas. White, 1936c, p. 65, pl. 12: figs. 4-6.

subglobosus Lesquereux. Pennsylvanian. 26330-32. Cannelton and Pittston, Pennsylvania. Lesquereux, 1884, p. 817, pl. 110: figs. 43, 44, 62.

tenax Lesquereux. Pennsylvanian (Allegheny). 26458-59. Cannelton, Pennsylvania. Lesquereux, 1884, p. 818, pl. 111: figs. 25, 26.

species. Pennsylvanian. 26362-65. Pratt mines, Alabama. Lesley, 1889, p. 869, figs. a-d.

species. Pennsylvanian (Pottsville). 40873. Bloomington quadrangle, Indiana. Jackson, 1917, p. 426, pl. 6: fig. 3.

Rhachiopterus

pinnata Dawson var. *angustipinna* White. Devonian. 36463-65. Perry, Maine. Smith and White, 1905, p. 50, pl. 4: figs. 1-3.

Rhacophyllum

adnascens Lindley and Hutton. Pennsylvanian. 40951. Colchester, Illinois. Lesquereux, 1880, p. 321, pl. 57: fig. 10.

corrallum Lesquereux. Pennsylvanian (Allegheny). 19469. Mazon Creek, Illinois. Lesquereux, 1880, p. 317, pl. 57: fig. 4.

expansum Lesquereux. Pennsylvanian ("Anthracite" Series). 19435. Olyphant, Pennsylvania. Lesquereux, 1880, p. 323, pl. 57: fig. 6.

fucoideum Lesquereux. Pennsylvanian (Allegheny). 19442-43. Mazon Creek, Illinois. Lesquereux, 1880, p. 325, pl. 58: figs. 6, 7.

hamulosum Lesquereux. Pennsylvanian (Cherokee). 19445. Henry County, Missouri. Lesquereux, 1880, p. 321, pl. 58: fig. 3.

inflatum Lesquereux. Pennsylvanian. 41072. Du Quoin, Illinois. Lesquereux, 1880, p. 323, pl. 57: figs. 7, 8.

membranaceum Lesquereux. Pennsylvanian (Cherokee). 19465-66. Henry County, Missouri. Lesquereux, 1880, p. 312, pl. 58: figs. 1, 2.

molle (Lesquereux) Lesquereux. Pennsylvanian (Allegheny). 40948, 40952, 40954. Mazon Creek, Illinois. Lesquereux, 1880, p. 326.

spinosum Lesquereux. Pennsylvanian (Cherokee). 19436. Henry County, Missouri. Lesquereux, 1880, p. 320, pl. 58: fig. 4.

strongi Lesquereux. Pennsylvanian (Allegheny). 19431. Mazon Creek, Illinois. Lesquereux, 1880, p. 325.

thalliforme (Lesquereux) Lesquereux. Pennsylvanian. 40949-50. Mazon Creek and Colchester, Illinois. Lesquereux, 1880, p. 324.

trichoideum Lesquereux. Pennsylvanian ("Anthracite" Series). 19453-54. Wilkes-Barre, Pennsylvania. Lesquereux, 1880, p. 322.

truncatum Lesquereux. Devonian (Catskill). 19414. Coxton Narrows, Pennsylvania. Lesquereux, 1880, p. 311, pl. 50: fig. 7.

Rhacopteris

latifolia (Arnold) Read. Mississippian (Pocono). 40666-68. Altoona, Pennsylvania. Read, 1955, p. 16, pl. 16: fig. 5; pl. 18: figs. 2, 3.—Read and Mamay, 1964, pl. 1: fig. 2.

ovata (McCoy) Walkom. Mississippian. 41008. Paracas Peninsula, Peru. Read, 1938a, p. 401, fig. 1.

Rhacopteris

sp. cf. *R. cuneata* Walkom. Mississippian. 41006. Paracas Peninsula, Peru. Read, 1938a, p. 401: fig. 5. species. Mississippian (Wedington). 39486. Winslow quadrangle, Arkansas. White, 1936b, p. 20, pl. 4: figs. 1, 6.

Rhizomorpha

sigillariae Lesquereux. Pennsylvanian (Allegheny). 25016. Cannelton, Pennsylvania. Lesquereux, 1878, p. 174, pl. 1: fig. 9; 1880, p. 3, pl. B: fig. 11.

Rhodea

alleghanensis Read. Mississippian (Pocono). 40691. Tionesta, Pennsylvania. Read, 1955, p. 18, pl. 16: fig. 4.

blackburgensis Read. Mississippian (Pocono). 40656. Vicker, Virginia. Read, 1955, p. 22, pl. 3: figs. 1, 2. *goepperti* (Ettinghausen) Stur. Mississippian (Stanley). 39384-91. De Queen, Arkansas. White, 1936c, p. 63, pl. 10: figs. 6-9, 12, 15, 16; pl. 11: figs. 7, 25, 26.

cf. *R. moravica* (Ettinghausen) Stur. Mississippian (Wedington). 39488. Winslow quadrangle, Arkansas. White, 1936b, p. 21, pl. 4: figs. 19, 24, 25.

cf. *R. subpetiolata* (Potonié) Nemejc. Mississippian (Wedington). 39487. Winslow quadrangle, Arkansas. White, 1936b, p. 21, pl. 4: figs. 2, 3.

cf. *R. tenuis* Gothan. Mississippian (Stanley). 39392. De Queen quadrangle, Arkansas. White, 1936c, p. 62, pl. 11: figs. 5, 12.

tionestana Read. Mississippian (Pocono). 40658. Tionesta, Pennsylvania. Read, 1955, p. 18, pl. 18: fig. 1.

vespertina Read. Mississippian (Price). 19923, 40638-39, 40657. Vicker, Virginia. Read, 1955, p. 22, pl. 3: figs. 3, 4; pl. 4: figs. 1-4; pl. 16: fig. 6.—Read and Mamay, 1964, pl. 2: fig. 3.

Rhynchogonium

choctawense White. Mississippian (Jackfork). 39409-11. Tuskahoma quadrangle, Oklahoma. White, 1936c, p. 65, pl. 12: figs. 2, 3, 8.

jayettevillense White. Mississippian (Wedington). 39504-12. Winslow quadrangle, Arkansas. White, 1936b, p. 25, pl. 8: figs. 1-5, 7, 8, 12-14, 22.

Rivularites

permensis White. Permian (Hermit). 38024. Grand Canyon, Arizona. White, 1929, p. 41, pl. 6; pl. 7: figs. 1-3; pl. 8: figs. 1, 4.

Root of a marine plant. Late Silurian. 41122. New Hartford, New York. Hall, 1852, p. 21, pl. 10: fig. 4.

Rosellinites

gangamopteridis White. Early Permian. 31911. Santa Catharina, Brazil. White, 1908, p. 413, pl. 5: fig. 1.

Rusophycus

clavatus Hall. Late Silurian. 41114, 41116. New Hartford, New York. Hall, 1852, p. 23, pl. 8: figs. 1a, 1b.

pudicus Hall. Late Silurian. 41113, 41115. New Hartford, New York. Hall, 1852, p. 24, pl. 8: figs. 6a, 6b.

subangulatus Hall. Late Silurian. 41112. New Hartford, New York. Hall, 1852, p. 23, pl. 8: fig. 2b.

Samaropsis

longi Schopf. Permian. 41996-97. Mt. Glossopteris, Antarctica. Schopf, 1962, p. 33, pl. 11: figs. 3-5, 4d, 4e.

Schizoneura?

Devonian (Genesee). 8327. Yates County, New York. Penhallow, 1893, p. 107, pl. 9: fig. 3.

species. Early Permian. 31914. Santa Catharina, Brazil. White, 1908, p. 435, pl. 5: fig. 6.

Schizopodium

mummi Read. Devonian (Hamilton). 41287. Canandaigua Lake, New York. Read, 1938c, p. 600, pl. 30: figs. 1-3.

cf. *Schizopteris*

trichomanoides Goeppert. Pennsylvanian (Spotted Ridge). 40726. Crook County, Oregon. Mamay and Read, 1956, p. 221, pl. 36: figs. 8, 9.

Schutzia

bracteata Lesquereux. Pennsylvanian (Allegheny). 41070. Mazon Creek, Illinois. Lesquereux, 1870, p. 427, pl. 21: fig. 6.

Sclerocephalus

oviformis Mamay. Pennsylvanian (Cherokee). 41289. West Mineral, Kansas. Mamay, 1954c, pl. 21: figs. 1-12.

cf. *Scolecopterus*

minor Hoskins. Pennsylvanian (McLeansboro). 41209-41212. Berryville, Illinois. Mamay and Yochelson, 1962, pl. 33: figs. 33-36.

Siderella

scotti Read. Devonian. 41265-66. Junction City, Kentucky. Read, 1936, p. 226, figs. 12, 16.

Sigillaria

australis White. Early Permian. 31929. Santa Catharina, Brazil. White, 1908, p. 465, pl. 6: fig. 11.

brardi Brongniart. Early Permian. 31928, 31928½. Rio Grande do Sul, Brazil. White, 1908, p. 459, pl. 5: figs. 12, 12a.

brardi Brongniart. Pennsylvanian (Stranger). 8673. Blue Mounds, Kansas. Cridland et al., 1963, pl. 17: fig. 8.

brardi coriacea White. Pennsylvanian (LeRoy). 16604-08. Lawrence, Kansas. White, 1903, p. 105.

brardi var. *coriacea* White. Pennsylvanian (Lawrence). 16606. Lawrence, Kansas. Cridland et al., 1963, pl. 17: fig. 5.

campototaenia Wood. Pennsylvanian (Cherokee). 6060a, 6063-64, 6094, 6106, 6112. Henry County, Missouri. White, 1899a, p. 230, pl. 61: fig. 1g; pl. 62: fig. 1; pl. 70: figs. 1, 3, 4.

chemungense Hall. Devonian. 41128. Elmira, New York. Hall, 1843, p. 274, illustr. 127, fig. 2.

elegans? Sternberg. Pennsylvanian (Pottsville). 40882, 40890. Clay City quadrangle, Indiana. Jackson, 1917, p. 413, pl. 7: fig. 8; pl. 8: fig. 7.

grand'euryi Lesquereux. Pennsylvanian (Allegheny). 16399-400. Cannelton, Pennsylvania. Lesquereux, 1884, p. 795.

ichthyolepis Sternberg. Pennsylvanian (Merom).

35319. Newport, Indiana. Lesquereux, 1880, p. 482, pl. 73: fig. 7.

lacoei Lesquereux. Pennsylvanian ("Anthracite" Series). 16806-12. Plymouth, Pennsylvania. Lesquereux, 1880, p. 499, pl. 72: fig. 12.

laurenciana White. Pennsylvanian (LeRoy). 16570-71. Lawrence, Kansas. White, 1903, p. 106.

laurenciana White. Pennsylvanian (Lawrence). 16571. Lawrence, Kansas. Cridland et al., 1963, pl. 17: fig. 7.

leptoderma Lesquereux. Pennsylvanian ("Anthracite" Series). 16779-83. Plymouth, Pennsylvania. Lesquereux, 1880, p. 489, pl. 72: fig. 10.

leveretti Lesquereux. Pennsylvanian (Des Moines). 16445-46. Des Moines County, Iowa. Lesquereux, 1884, p. 800, pl. 108: figs. 4, 5.

mamillaris Brongniart. Pennsylvanian. 16520, 16532, 16540. Cannelton and Plymouth, Pennsylvania. Lesquereux, 1880, p. 483, pl. 72: fig. 5; 1884, p. 799, pl. 108: fig. 6.

marginata Lesquereux. Pennsylvanian. 16798-99. Plymouth, Pennsylvania. Lesquereux, 1880, p. 498, pl. 71: fig. 5.

monostigma Lesquereux. Pennsylvanian (Allegheny). 16415-18. Cannelton, Pennsylvania. Lesquereux, 1880, p. 468, pl. 73: figs. 3-6.

?*muralis* White. Early Permian. 32044a-b. Rio Grande do Sul, Brazil. White, 1908, p. 467, pl. 12: figs. 1-4.

ovalis Lesquereux. Pennsylvanian ("Anthracite" Series). 16553. Plymouth, Pennsylvania. Lesquereux, 1880, p. 495, pl. 71: fig. 7.

pittstoniana Lesquereux. Pennsylvanian ("Anthracite" Series). 16709-14. Plymouth, Pennsylvania. Lesquereux, 1880, p. 493, pl. 71: fig. 4.

rectostriata Lesquereux MS. Pennsylvanian (Chautauque). 16576. Thayer, Kansas. Cridland et al., 1963, pl. 17: fig. 9.

sigillarioides (Lesquereux) White. Pennsylvanian (Cherokee). 16659. Henry County, Missouri. White, 1899a, p. 239, pl. 70: fig. 2.

specta White. Pennsylvanian (LeRoy). 16650, 19732. Lawrence, Kansas. White, 1903, p. 106.

specta White. Pennsylvanian (Lawrence). 16650. Lawrence, Kansas. Cridland et al., 1963, pl. 17: fig. 12.

voltzi Brongniart Pennsylvanian ("Anthracite" Series). 16778. Plymouth, Pennsylvania. Lesquereux, 1880, p. 492, pl. 72: fig. 11.

williamsi Lesquereux. Pennsylvanian ("Anthracite" Series). 16745-46. Olyphant, Pennsylvanian. Lesquereux, 1884, p. 801, pl. 107: fig. 15.
 species. Early Permian. 31930-31. Santa Catharina, Brazil. White, 1908, pp. 471, 473, pl. 5: fig. 13; pl. 6: fig. 10.
 species. Pennsylvanian (Vandever). 41990. Durham, Georgia. Allen and Lester, 1954, pl. 36: fig. 4.
Sigillarioid leaves. Pennsylvanian (Cherokee). 6102. Henry County, Missouri. White, 1899a, p. 230, pl. 64: fig. e.

Sigillariostrobus

quadrangularis (Lesquereux) White. Pennsylvanian. 25274, 25277. Port Griffith, Pennsylvania. Wood, 1957, pp. 141-154: figs. 9, 10.

Sorocladus

dispensus Lesquereux. Permian (Dunkard). 19612. Cassville, West Virginia. Lesley, 1890, p. 973.
ophioglossoides Lesquereux. Pennsylvanian (Cherokee). 14270. Henry County, Missouri. Lesquereux, 1880, p. 329, pl. 48: fig. 11.
sagittatus Lesquereux. Pennsylvanian (Allegheny). 14274-77. Mazon Creek, Illinois. Lesquereux, 1884, p. 760, pl. 100: figs. 4, 5.

Spencerisporites

species. Pennsylvanian (McLeansboro). 41187-41190. Berryville, Illinois. Mamay and Yochelson, 1962, pl. 33: figs. 11-14.

Sphenophyllum

angustifolium Germar. Pennsylvanian (Monogahela). 18710. Hocking Valley, Ohio. Lesquereux, 1884, p. 726, pl. 93: fig. 8.
arkansanum White. Mississippian (Stanley). 39441-44. De Queen quadrangle, Arkansas. White, 1936c, p. 55, pl. 14: figs. 10, 12, 14, 15, 19, 20.
bifurcatum Lesquereux. Pennsylvanian (Pottsville). 18629. Washington County, Arkansas. Lesquereux, 1860, p. 309, pl. 1: fig. 2; 1880, p. 55, pl. 2: fig. 10.
cuneifolium (Sternberg) Zeiller. Pennsylvanian (Pottsville). 40836-37, 40840. Bloomington quad-

rangle, Indiana. Jackson, 1917, p. 411, pl. 1: figs. 2, 3, 6.
emarginatum Brongniart. Pennsylvanian (Cherokee). 6068. Henry County, Missouri. White, 1899a, p. 177, pl. 59: fig. 1d.
emarginatum Brongniart. Pennsylvanian. 18550. Avoca, Pennsylvania. Abbott, 1958, p. 339, pl. 38: fig. 29.
fasciculatum (Lesquereux) White. Pennsylvanian (Cherokee). 5637, 5639, 18295-96. Henry County, Missouri. White, 1899a, p. 183, pl. 50: figs. 1-4.
fasciculatum (Lesquereux) White. Pennsylvanian (Cherokee). 18292. Henry County, Missouri. Abbott, 1958, p. 342, pl. 48: fig. 84.
gilmorei White. Permian (Hermit). 38025. Grand Canyon, Arizona. White, 1929, p. 44, pl. 3; pl. 9: figs. 1, 2, 4; pl. 10: figs. 1, 3-6; pl. 21: fig. 5.—Read and Mamay, 1964, pl. 15: fig. 2.
lescurianum White. Pennsylvanian (Cherokee). 12386, 18711. Henry County, Missouri. White, 1899a, p. 182, pl. 24: fig. 3c; pl. 50: fig. 6b; pl. 51: fig. b.
majus Brongniart. Pennsylvanian (Cherokee). 5679-80, 18711. Henry County, Missouri. White, 1899a, p. 180, pl. 50, figs. 5, 6a; pl. 51: fig. a; pl. 73: fig. 3.
oblongifolium (Germar and Kalfuss) Unger. Permian (Tubarao Series). 40616. Parana, Brazil. Read, 1941, p. 91, pl. 6: figs. 1, 2.
suspectum White. Pennsylvanian (McAlester). 6431, 6747. McAlester, Oklahoma. White, 1899b, p. 522, pl. 68: figs. 11, 12.
tenerrimum Ettinghausen. Pennsylvanian (Pottsville). 18461, 18463. Rushville, Ohio. Lesquereux, 1884, p. 728, pl. 92: figs. 9, 10.—Abbott, 1958, p. 357, pl. 48: fig. 82.
tenerrimum elongatum White. Pennsylvanian (Pottsville). 40969, 40981. New Lincoln colliery, Pennsylvania. White, 1900, p. 898, pl. 193: figs. 8, 9.
tenue White. Pennsylvanian (Pottsville). 18501-02, 40966. Pocahontas quadrangle, West Virginia, and Warrior, Alabama. White, 1900, p. 901, pl. 191: figs. 6, 7.
tenue White. Pennsylvanian (Pottsville). 40835. Bloomington quadrangle, Indiana. Jackson, 1917, p. 410, pl. 1: fig. 1.
 species. Mississippian (Wedington). 39476. Winslow quadrangle, Arkansas. White, 1936b, p. 40, pl. 8: fig. 16.

Sphenopteridium

brooksi Read. Mississippian (Pocono). 40654-55. Beech Fork, West Virginia. Read, 1955, p. 28, pl. 1: figs. 10, 11, 14.—Read and Mamay, 1964, pl. 2: fig. 4.

dawsoni (Stur) Potonie. Mississippian (Stanley). 39377. De Queen quadrangle, Arkansas. White, 1936c, p. 63, pl. 11: fig. 11.

girtya Read. Mississippian (Pocono). 40675-79. Beech Fork, West Virginia. Read, 1955, p. 28, pl. 1: figs. 1-6.

virginianum Read. Mississippian (Pocono). 40636-37. Whitaker Falls, Virginia. Read, 1955, p. 27, pl. 1: figs. 7-9.

Sphenopteris

brittsei Lesquereux. Pennsylvanian (Cherokee). 14953. Henry County, Missouri. Lesquereux, 1880, p. 277, pl. 55: fig. 2.

brittsei Lesquereux. Pennsylvanian (Allegheny?). 14954-55. Nelsonville, Ohio. Lesquereux, 1884, p. 764, pl. 102: figs. 3, 4.

brittsei Lesquereux. Pennsylvanian (Cherokee). 5626, 5668-69, 5703, 5705-06. Henry County, Missouri. White, 1899a, p. 53 pl. 15: fig. 1; pl. 16; pl. 17; pl. 18, figs. 1, 2; pl. 19: fig. 3.

broadheadi White. Pennsylvanian (Cherokee). 5619-20. Henry County, Missouri. White, 1899a, p. 41, pl. 13: figs. 1, 2.

canneltonensis White. Pennsylvanian (Allegheny). 5569, 14672. Cannelton, Pennsylvania, and Henry County, Missouri. White, 1899a, p. 55, pl. 15: fig. 2.

capitata White. Pennsylvanian (Cherokee). 5662. Henry County, Missouri. White, 1899a, p. 57, pl. 15: fig. 3.

cheathami (Lesquereux) Read. Pennsylvanian (Weber). 39154, 39158. Evans Peak, Colorado. Read, 1934, p. 86, pl. 17: figs. 1-4.

communis Lesquereux. Pennsylvanian (coal-bearing shale). 14340. Washington County, Arkansas. Lesquereux, 1884, p. 762, pl. 104: fig. 1.

communis Lesquereux. Pennsylvanian (Pottsville). 40838. Bloomington quadrangle, Indiana. Jackson, 1917, p. 414, pl. 1: fig. 4.

cf. *S. communis* Lesquereux. Mississippian (Wedington). 39490. Winslow quadrangle, Arkansas. White, 1936b, p. 21, pl. 4: fig. 9.

cf. *communis* Lesquereux. Pennsylvanian (Pottsville). 40839. Bloomington quadrangle, Indiana. Jackson, 1917, p. 414, pl. 1: fig. 5.

cristata Sternberg. Pennsylvanian. 14644. Rhode Island. Lesquereux, 1884, p. 761, pl. 102: fig. 1.

erectiloba White. Mississippian (Wedington). 39491. Winslow quadrangle, Arkansas. White, 1936b, p. 21, pl. 4: figs. 10, 16.

cf. *S. gravenhorsti* Brongniart. Pennsylvanian (Cherokee). 5720. Henry County, Missouri. White, 1899a, p. 50, pl. 19: fig. 2.

gravenhorsti var. B Brongniart. Pennsylvanian (Pottsville). 14397. Dade County, Georgia. Lesquereux, 1884, p. 763, pl. 101: fig. 1.

harveyi Lesquereux. Pennsylvanian (coal-bearing shale). 14386. Washington County, Arkansas. Lesquereux, 1884, p. 766, pl. 103: fig. 7.

harveyi Lesquereux. Pennsylvanian (Pottsville). 41229, 41231. Gadsden, Alabama. Lesquereux, 1888, p. 84, pl. 29: figs. 5, 6, 9.

harveyi robusta Lesquereux. Pennsylvanian (Pottsville). 41235. Gadsden, Alabama. Lesquereux, 1888, p. 85, pl. 29: fig. 8.

hastata McCoy. Early Permian. 31935. Santa Catharina, Brazil. White, 1908, p. 475, pl. 6: fig. 1.

hitchcockana Dawson. Devonian. 41117. Perry, Maine. Dawson, 1862, p. 311, pl. 16: fig. 51.

hymenophylloides Brongniart. Pennsylvanian (Allegheny). 14672. Cannelton, Pennsylvania. Lesquereux, 1884, p. 764, pl. 102: fig. 2.

illinoensis White. Pennsylvanian (Cherokee). 5661, 5697. Henry County, Missouri. White, 1899a, p. 58, pl. 44: fig. 1; pl. 19: fig. 4.

inequilateralis Lesquereux. Pennsylvanian (Pottsville). 41164. Washington County, Arkansas. Lesquereux, 1884, p. 765, pl. 103: fig. 4.

inequilateralis Lesquereux. Pennsylvanian (Pottsville). 40846. Bloomington quadrangle, Indiana. Jackson, 1917, p. 414, pl. 2: fig. 6.

lacoei White. Pennsylvanian (Cherokee). 5802. Henry County, Missouri. White, 1899a, p. 38, pl. 12: fig. 3.

lacoei White. Pennsylvanian. 41017. Belleville, Missouri. White, 1893a, pp. 56-58, pl. 2: fig. 5.

lobifolia Morris (counterpart). Pennsylvanian. 1360. Newcastle, New South Wales, Australia. Dana, 1849, pl. 12: fig. 12.

macilenta Lindley and Hutton. Pennsylvanian. 41015-16. Belleville, Missouri. White, 1893a, pp. 55, 56, pl. 1: figs. 4, 4a.

cf. S. microcarpa Lesquereux. Pennsylvanian (Weber). 39154. Evans Peak, Colorado. Read, 1934, p. 85, pl. 17: figs. 6, 7.

mississippiana White. Mississippian (Wedington). 39492–500. Winslow quadrangle, Arkansas. White, 1936b, p. 22, pl. 4: figs. 4, 5, 11, 13–15, 17, 18, 20–23, 30, 36, 39.

cf. S. mississippiana White. Mississippian (Stanley). 39372. De Queen quadrangle, Arkansas. White, 1936c, p. 63, pl. 11: figs. 17, 18.

missouriensis White. Pennsylvanian (Cherokee). 5663–64. Henry County, Missouri. White, 1899a, p. 43, pl. 14: figs. 1, 2.

mixta Schimper. Pennsylvanian (Cherokee). 5687, 5692, 5712–14. Henry County, Missouri. White, 1899a, p. 35, pl. 11: fig. 3; pl. 12: figs. 1, 2; pl. 13: figs. 4, 5.

obovata Lindley and Hutton. Pennsylvanian. 14390. Washington County, Arkansas. Lesquereux, 1884, pp. 769–770, pl. 103: fig. 6.

cf. S. obtusiloba Brongniart. Mississippian (Wedington). 39501. Winslow quadrangle, Arkansas. White, 1936b, p. 23, pl. 4: fig. 12.

ophioglossoides (Lesquereux) White. Pennsylvanian (Cherokee). 5698. Henry County, Missouri. White, 1899a, p. 60, pl. 20: figs. 3, 4.

parasica Gothan. Mississippian. 41007. Paracas Peninsula, Peru. Read, 1938a, p. 399, fig. 2.

patentissima (Ettinghausen) Schimper. Pennsylvanian (Pottsville). 40965. ?Lincoln colliery near Tremont, Pennsylvania. White, 1900, p. 880, pl. 188: fig. 1.

pinnatifida (Lesquereux) White. Pennsylvanian (Cherokee). 5803, 5807, 14304. Henry County, Missouri. White, 1899a, p. 45, pl. 18: figs. 3, 4; pl. 19: fig. 1.

plicata Lesquereux. Pennsylvanian (Allegheny). 14663–64. Mazon Creek, Illinois. Lesquereux, 1884, p. 763, pl. 111: fig. 28.

royi Lesquereux. Pennsylvanian. 19851–54. Rockwood, Tennessee, and Washington County, Arkansas. Lesquereux, 1884, p. 768, pl. 104: figs. 7–10.

cf. S. schimperiana Goeppert. Mississippian (Wedington). 39502. Winslow quadrangle, Arkansas. White, 1936b, p. 24, pl. 4: figs. 7, 8.

solida Lesquereux. Pennsylvanian (Allegheny). 14213–14. Mazon Creek, Illinois. Lesquereux, 1884, p. 769, pl. 101: fig. 3.

specta White. Pennsylvanian (Cherokee). 5649–50, 5652. Henry County, Missouri. White, 1899a, p. 51, pl. 35: figs. 1–3.

taffi White. Pennsylvanian (McAlester). 6429–30, 6742. McAlester, Oklahoma. White, 1899b, p. 485, pl. 67: fig. 7; pl. 68: figs 1, 19.

tracyana Lesquereux. Pennsylvanian (Pottsville). 14132. Tracy, Tennessee. Lesquereux, 1884, p. 766, pl. 101: fig. 2.

tridactylites Brongniart. Pennsylvanian (Cherokee). 14304. Henry County, Missouri. Lesquereux, 1880, p. 284, pl. 55: fig. 9.

van ingenii White. Pennsylvanian (Cherokee). 5616. Henry County, Missouri. White, 1899a, p. 47, pl. 13: fig. 3.

wardiana White. Pennsylvanian (Cherokee). 5615, 5617. Henry County, Missouri. White, 1899a, p. 39, pl. 11: figs. 1, 2.

species. Mississippian (Stanley). 39370–71. De Queen quadrangle, Arkansas. White, 1936c, p. 64, pl. 10: figs. 1, 2, 4, 5.

species. Permian (Tubarao Series). 40617. Parana, Brazil. Read, 1941, p. 73, pl. 3: fig. 7.

species. Early Permian. 31936. Santa Catharina, Brazil. White, 1908, p. 477, pl. 6: fig. 2.

species. Pennsylvanian (Cherokee). 5654, 5815. Henry County, Missouri. White, 1899a, p. 66, pl. 35: fig. 6; pl. 45: fig. 2.

species. Pennsylvanian. 41018. Belleville, Missouri. White, 1893a, pp. 59–60, pl. 1: fig. 3.

Sphenothallus

latifolius Hall. Ordovician. 41118. Schoharie County, New York. Hall, 1847, p. 262, pl. 68: fig. 2d.

Spirophyton

cauda-galli (Vanuxem) Hall. Devonian. 41132. New York. Hall, 1863, p. 79, fig. 1.

Sporocystis

planus Lesquereux. Pennsylvanian (Pottsville). 25196–99. Pittston, Pennsylvania. Lesquereux, 1880, p. 458, pl. 69: fig. 15.

species. Pennsylvanian (Allegheny). 26052–53. Cannelton, Pennsylvania. Lesquereux, 1880, p. 458, pl. 69: figs. 11, 12.

Steloxylon

irvingense Read and Campbell. Devonian. 41270. Irving, Kentucky. Read and Campbell, 1939, p. 445, pl. 1: fig. 1.

santae-crucis Read and Campbell. Devonian. 41271. Boston, Kentucky. Read and Campbell, 1939, p. 446, pl. 1: figs. 2, 4, 5.

Stemmatopteris

anceps Lesquereux. Pennsylvanian (Allegheny). 17139-40. Cannelton, Pennsylvania. Lesquereux, 1884, p. 838.

angustata Lesquereux. Pennsylvanian (Allegheny). 17078. Cannelton, Pennsylvania. Lesquereux, 1880, p. 339, pl. 59: fig. 5.

cyclostigma Lesquereux. Pennsylvanian ("Anthracite Series"). 11050, 17088-89. Olyphant, Pennsylvania. Lesquereux, 1880, p. 341.

emarginata Lesquereux. Pennsylvanian (Allegheny). 17142. Cannelton, Pennsylvania. Lesquereux, 1880, p. 337.

hirsuta Lesquereux. Pennsylvanian. 17070. Olyphant, Pennsylvania. Lesquereux, 1880, p. 337.

microstigma Lesquereux. Pennsylvanian (Allegheny). 17134-37. Cannelton, Pennsylvania. Lesquereux, 1884, p. 838.

mimica Lesquereux. Pennsylvanian (Allegheny). 17141. Cannelton, Pennsylvania. Lesquereux, 1880, p. 341, pl. 59: fig. 4.

polita Lesquereux. Pennsylvanian (Allegheny). 17096. Cannelton, Pennsylvania. Lesquereux, 1880, p. 342, pl. 59: fig. 6.

squamosa Lesquereux. Pennsylvanian (Allegheny). 17073. Cannelton, Pennsylvania. Lesquereux, 1880, p. 339, pl. 59: fig. 2.

Stenokoleos

setchelli (Read) Hoskins and Cross. Mississippian. 41272-74. New Albany, Indiana. Hoskins and Cross, 1951, p. 702, figs. 21, 25, 26.

simplex (Read) Beck. Devonian. 41268. New Albany, Indiana. Beck, 1960, figs. 9, 17c.

Stenomyelon

muratum Read. Devonian. 41249. Junction City, Kentucky. Read, 1937, p. 84, pl. 20: figs. 1, 3;

pl. 21: fig. 2; pl. 22: figs. 1-3; pl. 23: figs. 4, 5; pl. 26: figs. 1, 3, 6.

Stigmaria

arkansana White. Mississippian (Wedington). 39538-39. Winslow quadrangle, Arkansas. White, 1936b, p. 32, pl. 5: fig. 6; pl. 9: fig. 8.

russelli Lesquereux. Pennsylvanian (Pottsville). 41230. Gadsden, Alabama. Lesquereux, 1888, p. 87, pl. 29: fig. 11.

wedingtonensis White. Mississippian (Wedington). 39540-41. Winslow quadrangle, Arkansas. White, 1936b, p. 32, pl. 5: fig. 7; pl. 9: fig. 3.

cf. *sigillaria campotaenia* Wood. Pennsylvanian (Cherokee). 6067. Henry County, Missouri. White, 1899a, p. 246, pl. 70: fig. 5.

species. Mississippian (Stanley). 39451. De Queen quadrangle, Arkansas. White, 1936c, p. 58, pl. 14: fig. 18.

Supaia

anomala White. Permian (Hermit). 38035. Grand Canyon, Arizona. White, 1929, p. 71, pl. 20: figs. 1-3; pl. 21: figs. 1-4; pl. 22; pl. 24: fig. 4.

breviloba White. Permian (Hermit). 38037. Grand Canyon, Arizona. White, 1929, p. 74, pl. 33: fig. 1.

compacta White. Permian (Hermit). 38034. Grand Canyon, Arizona. White, 1929, p. 69, pl. 15: fig. 4; pl. 16: fig. 4; pl. 26: fig. 3; pl. 32: fig. 1; pl. 35: fig. 3.—Read and Mamay, 1964, pl. 14: fig. 2.

linearifolia White. Permian (Hermit). 38036. Grand Canyon, Arizona. White, 1929, p. 72, fig. 1, pl. 23: fig. 1; pl. 36: fig. 4.

merriami White. Permian (Hermit). 38033. Grand Canyon, Arizona. White, 1929, p. 67, pl. 19.—Read and Mamay, 1964, pl. 15: fig. 1.

rigida White. Permian (Hermit). 38031. Grand Canyon, Arizona. White, 1929, p. 64, pl. 17: figs. 1-3.

sturdevanti White. Permian (Hermit). 38032. Grand Canyon, Arizona. White, 1929, p. 65, pl. 18: figs. 1, 2.

sturdevanti White. Permian (Hermit). 38040. Grand Canyon, Arizona. Read and Mamay, 1964, pl. 14: fig. 1.

subgoepperti White. Permian (Hermit). 38038. Grand Canyon, Arizona. White, 1929, p. 75, pl. 25.

thinnfeldioides White. Permian (Hermit). 38030. Grand Canyon, Arizona. White, 1929, p. 62, pl. 14; pl. 15: figs. 2, 3, 5; pl. 16: figs. 2, 3. species. Permian (Hermit). 38039. Grand Canyon, Arizona. White, 1929, p. 77, pl. 34. species indeterminate. Permian (Hermit). 38040. Grand Canyon, Arizona. White, 1929, p. 78, pl. 32: fig. 2; pl. 33: figs. 2, 3. species. Permian (Hermit). 38041. Grand Canyon, Arizona. White, 1929, p. 78, pl. 24: fig. 1.

Syringodendron

gracile Dawson. Early Mississippian. 41119. Akron, Ohio. Dawson, 1862, p. 308, pl. 13: fig. 14.

Taeniocrada

chrondriformis (Penhallow) White. Devonian (Chemung). 5405. Lanesboro, Pennsylvania. White, 1901, p. 604.

lesquereuxi White. Devonian (Chemung). 5409. Lanesboro, Pennsylvania. White, 1901, p. 604.

palmata White. Devonian. 36457. Gleason's Cove, Maine. Smith and White, 1905, p. 37, pl. 2: fig. 10.

Taeniophyllum

brevifolium Lesquereux. Pennsylvanian (Allegheny). 19276-77. Cannelton, Pennsylvania. Lesquereux, 1884, p. 788, pl. 108: fig. 3.

contextum Lesquereux. Pennsylvanian (Allegheny). 19270. Cannelton, Pennsylvania. Lesquereux, 1878, p. 332; 1880, p. 465, pl. 82: fig. 2.

decurrens Lesquereux. Pennsylvanian (Allegheny). 19256. Cannelton, Pennsylvania. Lesquereux, 1878, p. 331; 1880, p. 464, pl. 81: fig. 1.

deflexum Lesquereux. Pennsylvanian (Allegheny). 19252. Cannelton, Pennsylvania. Lesquereux, 1878, p. 331; 1880, p. 465, pl. 83: fig. 4.

latifolium White. Pennsylvanian (Cherokee). 6068, 6070. Henry County, Missouri. White, 1899a, p. 247, pl. 63: fig. 4; pl. 71: fig. 1.

Taeniophyllum?

species. Pennsylvanian. 2205. Warrior Creek, Alabama. Lesquereux, 1887, p. 29..

Taeniopteris

angelica White. Permian (Hermit). 38048. Grand Canyon, Arizona. White, 1929, p. 93, pl. 31: fig. 3; pl. 36: fig. 2; pl. 38: fig. 2.

coriacea Goeppert. Permian (Hermit). 38049. Grand Canyon, Arizona. White, 1929, p. 94, pl. 36: fig. 1; pl. 37: fig. 3; pl. 38: fig. 3.

coriacea Goeppert. Permian. 7744. Dickinson County, Kansas. Sellards, 1901, p. 2, pl. 4: fig. 1.

coriacea Goeppert (counterpart). Permian. 8092-93. Dickinson County, Kansas. Sellards, 1901, p. 2, pl. 2: figs. 1, 2.

cf. *eckhardti* Kurtze. Permian. 38046-47. Grand Canyon, Arizona. White, 1929, p. 92, pl. 37: figs. 1, 2; pl. 38: figs. 1, 4.

missouriensis White. Pennsylvanian (Cherokee). 5556-58, 5560. Henry County, Missouri. White, 1893b, pp. 119-131, pl. 1: figs. 1-6; 1899a, p. 140, pl. 40: figs. 1-6.

newberriana Fontaine and White (counterpart). Permian (Wellington). 8087. 3 miles south of Banner City, Kansas. Sellards, 1901, p. 4, pl. 4: fig. 4.—Read and Mamay, 1964, pl. 16: fig. 1.

truncata Lesquereux. Pennsylvanian. 11699. Pittston, Pennsylvania. Lesquereux, 1884, p. 743, pl. 94: fig. 8.

species. Pennsylvanian (Pottsville). 40893. Clay City quadrangle, Indiana. Jackson, 1917, pl. 9: fig. 3.

Taonurus

colletti Lesquereux. Carboniferous. 25056. Missouri. Lesquereux, 1880, p. 7, pl. A: fig. 7.

Taxites?

species. Permian (Hermit). 38059. Grand Canyon, Arizona. White, 1929, p. 109, pl. 49: fig. 6.

Telangium?

species. Mississippian (Wedington). 39503. Winslow quadrangle, Arkansas. White, 1936b, p. 24, pl. 5: fig. 2.

?*Tingia*

species. Permian (Belle Plains). 41773. Emily Irish Grant, Baylor County, Texas. Read and Mamay, 1964, pl. 18: fig. 3.

Titanophyllum

brittsi White. Pennsylvanian (Cherokee). 6168. Henry County, Missouri. White, 1899a, p. 271.

Trichopitys

whitei Read. Pennsylvanian (Weber). 39156. Evans Peak, Colorado. Read, 1933, pp. 461-463, fig. 1; 1934, p. 89, pl. 18: figs. 4, 5.

Trigonocarpus

adamsi Lesquereux. Pennsylvanian. 26727-33. Stark County, Illinois, and Cannelton, Pennsylvania. Lesquereux, 1884, p. 820, pl. 110: figs. 51, 52, 54-57.

ampullaeformis Lesquereux. Pennsylvanian. 26536-38. Washington County, Arkansas, and Tracy, Tennessee. Lesquereux, 1884, p. 823, pl. 109: figs. 18, 19, 21.

ampullaeforme spectabile White. Pennsylvanian (Pottsville). 40970. Lincoln colliery, Pennsylvania. White, 1900, p. 909, pl. 191: fig. 8.

dawesi Lindley and Hutton. Pennsylvanian (Allegheny). 26137. Cannelton, Pennsylvania. Lesquereux, 1880, p. 586, pl. 85: fig. 25.

dawesi Lindley and Hutton. Pennsylvanian. 26138-40. Stark County, Illinois. Lesquereux, 1884, p. 821, pl. 111: figs. 4-6.

giffordi Lesquereux. Pennsylvanian. 26755. Alta, Peoria County, Illinois. Lesquereux, 1880, pp. 592-593, pl. 85: figs. 5, 6.

gillhami White. Mississippian (Stanley). 39418-22. De Queen quadrangle, Arkansas. White, 1936c, p. 66, pl. 12: fig. 12; pl. 14: figs. 5-8.

grandis Lesquereux. Pennsylvanian. 26018-20. Stark County, Illinois, and Cannelton, Pennsylvania. Lesquereux, 1884, p. 819, pl. 111: figs. 1-3.

helenae White. Pennsylvanian (Pottsville). 26268. Helena mines, Alabama. White, 1900, p. 909.

hexacostatum Jackson. Pennsylvanian (Pottsville?). 40874. Bloomington quadrangle, Indiana. Jackson, 1917, p. 420, pl. 6: fig. 4.

hexagonale Jackson. Pennsylvanian (Pottsville?). 40875. Cincinnati, Bloomington quadrangle, Indiana. Jackson, 1917, p. 420, pl. 6: fig. 5.

kansasianus Lesquereux. Pennsylvanian (Missourian). 26999-27002. Osage City, Kansas. Lesquereux, 1884, p. 822.

perpusillus Lesquereux. Pennsylvanian. 26982-83, 26985. Stark County, Illinois. Lesquereux, 1884, p. 820, pl. 110: figs. 58-60.

schultzianus Goeppert and Berger. Pennsylvanian. 26006-08. Stark County, Illinois. Lesquereux, 1884, p. 819, pl. 110: figs. 63-65.

cf. *schultzianum* Goeppert and Berger. Pennsylvanian (Pottsville). 40876. Bloomington quadrangle, Indiana. Jackson, 1917, p. 420, pl. 6: fig. 7.

starkianus Lesquereux. Pennsylvanian. 26865-71. Stark County, Illinois. Lesquereux, 1884, p. 822, pl. 111: figs. 7-13.

vallisjohanni White. Mississippian (Stanley and Jackfork). 39423-25. De Queen quadrangle, Arkansas, and Tuscaloosa quadrangle, Oklahoma. White, 1936c, p. 66, pl. 14: figs. 2-4.

Triletes

auritus var. *grandis* Zerndt. Pennsylvanian (McLeansboro). 41191-93. Berryville, Illinois. Mamay and Yochelson, 1962, pl. 33: figs. 15-17.

glabratus Zerndt. Pennsylvanian (McLeansboro). 41179-80. Berryville, Illinois. Mamay and Yochelson, 1962, pl. 33: figs. 3, 4.

cf. *T. rugosus* (Loose) Schopf. Pennsylvanian (Secor coal). 41194-95. McAlester, Oklahoma, Mamay and Yochelson, 1962, pl. 33: figs. 18, 19.

cf. *T. superbus* Bartlett. Pennsylvanian (Cherokee). 41181-86, 41203-06. West Mineral, Kansas. Mamay and Yochelson, 1962, pl. 33, figs. 5-10, 27-30.

triangulatus Zerndt. Pennsylvanian. 41197-98. Oskaloosa, Iowa. Mamay and Yochelson, 1962, pl. 33: figs. 21, 22.

Triphyllopteris

alleghanensis (Meek) Read. Mississippian (Pocono). 40689. Lewis tunnel, Virginia. Read, 1955, p. 25, pl. 9: figs. 3-5.

latilobata Read. Mississippian (Pocono). 40693-95. ?Virginia. Read, 1955, p. 24, pl. 8: figs. 1-3; pl. 10: fig. 5.

lescuriana (Meek) Lesquereux. Mississippian (Pocono). 1447. Lewis tunnel, Virginia. Lesquereux, 1880, p. 297, pl. 50: fig. 6.—Butts, 1941, pl. 133: fig. 1.

lescuriana (Meek) Lesquereux. Mississippian (Pocono). 1467, 2190, 19956, 40644, 40704. Various Virginia localities. Read, 1955, p. 24, pl. 5: figs. 3, 4; pl. 6: figs. 1-3; pl. 11: fig. 3. *lescuriana* (Meek) Lesquereux. Mississippian (Price). 19929. 1½ miles north of Vicker, Virginia. Read and Mamay, 1964, pl. 1: fig. 3. *rarinervis* Read. Mississippian (Price). 19934, 19974, 40641. Montgomery County, Virginia. Read and Mamay, 1964, pl. 2: fig. 1.—Read, 1955, p. 25, pl. 7: figs. 1, 2; pl. 12: figs. 3, 4; pl. 13: fig. 3.

Trochiliscus

devonica (Wieland) Peck. Devonian. 39151. Falls of the Ohio, Louisville, Kentucky. Peck, 1934, p. 108, pl. 12: figs. 16, 19-20. *greenei* (Ulrich) Brown. Devonian. 42079. Falls of the Ohio, Louisville, Kentucky. Brown, 1946, p. 344. *lemoni* (Knowlton) Karpinsky. Devonian. 3664. Falls of the Ohio, Louisville, Kentucky. Peck, 1934, p. 105, pl. 9: figs. 6a, 6c.

Trochophyllum

clavatum Lesquereux. Pennsylvanian. 16643. Pittsburgh, Pennsylvania. Lesquereux, 1880, pl. 3: fig. 21.

Tubicaulis

scandens Mamay. Pennsylvanian (McLeansboro). 41291. Berryville, Illinois. Mamay, 1952, unfigured sections of holotype.

Tyliosperma

orbiculatum Mamay. Pennsylvanian (Des Moines). 41290. West Mineral, Kansas. Mamay, 1954c, figs. 2a-2l; pl. 22: figs. 1-9; pl. 23: figs. 1-8.

Ullmannia

frumentaria (Schlotheim) Goepert. Permian (Hermit). 38055. Grand Canyon, Arizona. White, 1929, p. 102, pl. 46: figs. 1-6; pl. 48: fig. 1; pl. 51: fig. 7.

Ulodendron

ellipticum Presl. Pennsylvanian (Allegheny). 15823. Morris, Illinois. Lesquereux, 1870, p. 436, pl. 23: fig. 1; 1880, p. 404, pl. 65: fig. 2.

Undetermined roots. Pennsylvanian (Spotted Ridge). 40731-32. Crook County, Oregon. Mamay and Read, 1956, p. 221, pl. 37: figs. 1, 2.

Volkmannia

crassa Lesquereux. Pennsylvanian (Pottsville). 18091. Dade County, Georgia. Lesquereux, 1884, pp. 719-720, pl. 90: fig. 1. *fertilis* Lesquereux. Pennsylvanian. 17772-75. Archbald, Pennsylvania, and Stark County, Illinois. Lesquereux, 1884, p. 720, pl. 90: fig. 4. *praelonga* Lesquereux. Pennsylvanian ("Anthracite Series"). 18425. Pittston, Pennsylvania. Lesquereux, 1884, p. 720, pl. 90: fig. 2.

Voltzia

dentiloba White. Permian (Hermit). 38056. Grand Canyon, Arizona. White, 1929, p. 105, pl. 51: fig. 5. species. Permian (Hermit). 38057. Grand Canyon, Arizona. White, 1929, p. 106, pl. 50: fig. 5.

Voltzia?

species. Early Permian. 32024, 32026-27. Santa Catharina, Brazil. White, 1908, p. 569, pl. 8: figs. 11-13.

Walchia

dawsoni White. Permian (Hermit). 38052. Grand Canyon, Arizona. White, 1929, p. 99, pl. 42: fig. 6; pl. 44: figs. 1, 4.

gracillima White. Permian (Hermit). 38053. Grand Canyon, Arizona. White, 1929, p. 100, pl. 44: figs. 2, 3, 5, 6.

hypnoides Brongniart. Permian (Hermit). 38054. Grand Canyon, Arizona. White, 1929, p. 102, pl. 49: fig. 5.

piniformis (Schlotheim) Sternberg. Permian (Hermit). 38051. Grand Canyon, Arizona. White, 1929, p. 96, pl. 41: figs. 1-3, 5; pl. 42: figs. 1-5.

piniformis (Schlotheim) Sternberg. Permian (Abo). 41222. Spanish Queen mine, 6 miles southwest of Jemez, New Mexico. Read and Mamay, 1964, pl. 13: fig. 2.

cf. *Walchia*

stricta Florin. Early Permian. 41158. Cotton County, Oklahoma. Florin, 1939, pls. 135/136: figs. 13, 14.

Walchiostrobus

species. Early Permian. 41157. La Cuava, New Mexico. Florin, 1939, pls. 95/96: fig. 18.

Walkomielia

australis (Feistmantel) Florin. Early Permian. 3729. Bowenfel, Australia. Florin, 1940, fig. 3, pl. 1: figs. 1-8; pl. 2: figs. 2-8; pl. 3: figs. 1-3.

Wardia

suspecta White. Mississippian (Stanley). 39399-400. DeQueen quadrangle, Arkansas. White, 1936c, p. 64, pl. 11: figs. 1-3.

Whittleseya

campbelli White. Pennsylvanian (Pottsville). 40976, 40983-84. Pottsville Gap and Lincoln colliery near Tremont, Pennsylvania. White, 1900, p. 905, pl. 190: figs. 9-11.

elegans Newberry. Pennsylvanian. 41067. Talmadge, Ohio. Read, 1946, p. 20, pl. 2: fig. 10.

microphylla Lesquereux. Pennsylvanian. 18880-82, 18888. Washington County, Arkansas. Lesquereux, 1884, p. 843.—Lesley, 1890, p. 1256.

undulata Lesquereux. Pennsylvanian (Late Pottsville). 42181. Pratt mines, Alabama. White, 1901b, p. 107, pl. 7: fig. 6.

Yakia

heterophylla White. Permian (Hermit). 38044. Grand Canyon, Arizona. White, 1929, p. 86, pl. 39: figs. 1-7.

Zeilleria

oliverirai Read. Permian (Tubarao Series). 40618. Parana, Brazil. Read, 1941, p. 71, pl. 1: figs. 1-5.

species. Pennsylvanian (Pottsville). 40839. Bloomington quadrangle, Indiana. Jackson, 1917, p. 414, pl. 1: fig. 5.

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